

<110> Byrum, Joseph R.
 <120> NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH PLANTS
 <130> 38-21(15598)B
 <160> 36935
 <210> 1
 <211> 147
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1

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 atggatggtg gntttggaca tttggat 147

<210> 2
 <211> 378
 <212> DNA
 <213> Glycine max
 <400> 2

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 agcaaccgtg aactgctccc tctgcacttg ggtttttaaa tccactgaa actgacaacg 180
 ccaacctcac tggcgccctcc ctctcaccca aatcgccacc tcgagtggcg ccttccagct 240
 aggaccctgc aactgcaggt gctgcaacct atggttgcag aagtgcaggt gctgaagtcg 300
 ctggtcaaac cagcgctttc atgcaccttt ggacgcgcca ataagagctg cgatatgcag 360
 tcctttgtcg ccagtcac 378

<210> 3
 <211> 423
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3

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aaatggcgga gttgcagcgg tgatcacaga agatagtgat ctaatagcat atggctgtcc 300
agctgtaaga actcctccaa tactgtgata ttgcgcatgg aggtttactg ctnntttgat 360
atctcgattt atttacttgt tcaactattca gttcataga aagcatgcat tttgggatat 420
aat 423

<210> 4
<211> 462
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4

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aaacagtaca gcagatgaaa atggtgggtc gcattaacct tcacaatttg gcagcacaga 180
aatcggacta ttttctcaaa cgaaccattt aatggaagca gaatgaatga ggatgcagtg 240
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tggtccagca acctatcagt agctntctgt aactagcata gatgggaagc tattgaccaa 360
atgtaacaat gtatctagtc tggattctaa cagagggacc ttcatcccac acagtcatac 420
tcctgtattc ttagtacccc ggtacttttc tataatataa at 462

<210> 5
<211> 394
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 5

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tcaaataccta aaatttgagc tcctagggag caaaacaatg tgtgtctcct agagagggca 180
 tcagctacca catttgtttt tccctttttg tatttgataa catatggaaa ttgctctagg 240
 tactctaccc attttgcattg cctcttggtt aacttgcttt gccctctaata gtacttaagt 300
 gattgatgat cactatgaat gacaaattcc ttggaaacaa ggtgtcgcaa cctacccttc 360
 ngcgggaggg cgacgcgtga ctgcgggat gcgt 394

<210> 6
 <211> 464
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 6

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 agttacaaca agtggtacac atgcttctat ttatagacta ggtagcttcc ttgagaagct 180
 ttcttgagga aacttccttg agaaacttct ttgaaaaaac ttccttgaga aggtagagct 240
 tagctacaca caccatctc ataactaagc tcacctcctt gagaagtttc cataagaaga 300
 ttcctaaaga agctagagct tagctacaca tacctctcta atagctaagc tcacctcctt 360
 gagatgggaa gctagagctn tgctacacac ccnctatgat agctaagctc acccccatga 420
 caaaatacat ganaatacaa aaaagatccc tactacaaag acta 464

<210> 7
 <211> 373
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 7

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 tacaagttcg cttagcacac tgtttcgtct cactaagcgc accgcttcag tccatcagct 180
 aagcgagaaa ggcacgcgt aagccgaaat tctaataatgt gcgctaagcg gtccagaatt 240
 gcgctaagtg cagcagcacg aacaaggcca cctatttaag cttgaaatca gattttgtga 300

aggagagtttg ggctaggatt cagagctttg catgtctaga gattctagag agagaaaggt 360
ccaatttcag aga 373

<210> 8
<211> 462
<212> DNA
<213> Glycine max

<400> 8

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tacctgtcgc aagggtttgt ggtttgtgct cctctgctga ccaccataca gacctttgcc 120
cttccatgca gcaacctgga gcaattgagc agcctgaagc ttatgctgca aatatttaca 180
atagacctcc tcaacctcag cagcaaaatc aaccacagta gagcaattat gacctttcca 240
gcaacagata caaccttgga tggaggaatc accctaacct cagatgggtcc agccctcagc 300
aacaacaaca gcagcctgct ccttccttcc aaaatgctgc tggcccaagc agaccataca 360
ttcctccacc aatccaacaa cagcaacaac cccagaaaca gccaacagct gagggccctc 420
cacaaccttc cctcgaagaa cttgtgaggc aaatgactat gc 462

<210> 9
<211> 421
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 9

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atcttcttta atctctttca acattttcaa cagatctttc tgattttattt cccttcatct 180
ttctaaaagt ttttgttcaa tagtttctct tccaagaaaa gttctttgtt caaaaacttc 240
agctattcat ctttttcatt ctcttctccc ttgccaataa gaaggaagga ctaaccgcct 300
gaattttttt gtgtctctct tctcccttac aaaagattca naggactaac cgctgatat 360
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a 421

<210> 10
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 10

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 cagatgcacc accaccgect ctacatcagc ctccgtcett agagtccatc tcagtcaca 120
 tgcagaggat tgagctccat atgcatgcat atatgcaaca tgtggccgac caataggcgg 180
 ccaatcatag gggatagggtg cagctgaatc agagctttta ccagtacacc ctacgtcagc 240
 agagctagga tcccagccct tactcgtggc ttactccga gtagtttggg gccacagttg 300
 catggcctgg agataggecc aattttcaag tagggacaag accctcaaag gccccaggag 360
 ttgaagatgg agctcaagaa gacgacgaca tangcgatgt gatg 404

<210> 11
 <211> 284
 <212> DNA
 <213> Glycine max

<400> 11

agctttccaa gatattaagt tcttctcag aactgtcgta agcgaagatg ccaatgtgct 60
 attacaact ttcgtttgcc catctgcttg tgggagacat gtggctgaaa ataacaattt 120
 agtgcccaac ttgaccacac caggactacg caaatggctt atgaacttac agtccttacc 180
 actaacaatg ctgcttggtg aacctatgat gtcacaatc tccttgagga acaaattagc 240
 cacatgggaa gcatcatcta cttctttaca tggaataaaa tgag 284

<210> 12
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 12

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 actaatattt taagtctat atataaatct tctctttgag cacttcttta tagctaattg 120
 gaagtacatt ataaccacca atttgataag atattgagac ataggcaaac cactaatcca 180

atgtacatac tgcagtgcac acatgttgta tccggaaagg attcacatgc atagagacat 240
 tgtgaaccca agattcctac tatgtttgtg gcaatggaaa gagttaacaa acagtgttga 300
 aaccaccctt tggttaatgcc tatgaagaca aacttactgt cacacctata ctaaacacc 360
 cctaacatat act 373

<210> 13
 <211> 339
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 13

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 aagattgtc ttgcctttga ctttctctat ctctctcgn gatttttttt atttgagcaa 180
 ccgttgatta tccggtaggg gtggaacttc gtatatgtct ttaatatctt cccatagatc 240
 acaagcatca agatagggtt ccgttctaata agcctagagg tggtaatgtt ntccattgaa 300
 tagtgaaagc ctatgaagca cggacaccct agtccctta 339

<210> 14
 <211> 397
 <212> DNA
 <213> Glycine max
 <400> 14

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 gataattcga gatcacttga aattagtga aaaaattgtt tccgtgaaga aaattcaagc 120
 caaggcggtt ccgtgggtga tttcgcgaag attttcaacc gttcttcgac gttcttcggt 180
 cgttcttcgt cgttcttcag ttttcaaccg gtaagttccc gaaatcgaaac ttttcaattc 240
 attctatgta cccttagtgg tcttcatttg ttttcaacgc cttttatttt cgtttcattt 300
 actttccgta cccctttttg acgtgctcta gtcatttact taagtcattgt tctcgcccta 360
 tcaaaaaata aaataaatat ccactgatca tttgagt 397

<210> 15
 <211> 384

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 15

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 gagttgggga ggattgattn tggaacttgt cgtgggtgcag aagttagttc aagtgcgaac 120
 actactagaa aaagagcttt ttgcgatgca cttacgacat cggccaaca aaactgtcga 180
 agtatattaa atggtgcatt tgtgtaatta caacgaaagt gtgcaccttg ccaattttat 240
 ggttgacatt ggcacaactc ccttgaaggt tggtggaagg gactcgagag tgaggaaaact 300
 agacagcttg gggatttctc gatttccgta acatacttaa tgctctcaca acatagtgga 360
 gttagggtag taaatttcac catt 384

<210> 16
 <211> 243
 <212> DNA
 <213> Glycine max

 <400> 16

 cgaaccgcac cctactttat acggcgacaa acatgtggat atagacaaac atgcgctgac 60
 ccgtctcagt gtcatgecta aggctagctc agcatgagtc caactttagc tagcgcgatt 120
 cataatgagt tgtgccacat tttgcctata agtaggtgag gcgatttttt tcaaccaatt 180
 agactcta atccatgggtgga tcaagttgac tcacaataat aataataatc tttttactta 240
 cct 243

<210> 17
 <211> 331
 <212> DNA
 <213> Glycine max

 <400> 17

 agctatatat cttttcttct tggttctgct tgctctgtag tgctttgggt ctatgctatc 60
 cttttatatt tcatactatc tttgacacat gggactaaac attgaacagg tgggaagggtg 120
 gtccagccaa aattccatgg tccttttaaag aagaagagac tatgtatctg ctggagggaa 180
 aagtgagggt tactgttgaa gggctctgtt ggtcttttga aattgggggt ggtgatttag 240

ttgtcttccc aaaaggaatg aacattactt gggaagtgat tgaaactgtg aagaagcact 300
acagcttgaa aaaataatga tgtgtactta t 331

<210> 18
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18

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gagaaatggt agcaatatac taccgtatga cactgcatca cacactttat tatttgccac 120
aatttattgg aaatcacaaa attttgtggg ttctgttact tatttaatga acttcactcg 180
tgattttgga atttctaata aattttaacc aataataata ataataagagt gtgttactta 240
gaagggcatt gtattgctag cactcctctt gaagtatagc atacaaacat gaaaggaatt 300
ccattttaag tattatcctg taccanaacc tcactttagt ccccaatttt ggaaatcaca 360
gttcttttca ctgacaaatg acttacagtt ntagttaaaa atagggatta acaagagtgg 420
agcatacaag accaggaggg act 443

<210> 19
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19

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tcttagtatt tctttcaagt attgtgcta ctctagaaac aagaataaga gaaaattaaa 120
gggaatgcag ttagtcacat gatataattga gatttgtttt ttttttcttt ttttgtaatt 180
gataaaaaag acaaaattgg tgtcttttgc attaaggggc ctttcagaag aacttgtgaa 240
aataaattga tcagtttaat ttccttatac ttcaagtga aagattttta tactatgaac 300
taacaaaaaa tcctcctatg attnttaata taattattat aaaattacca tacatcataa 360
tttgagaatg tagaanacat aaacaacgtt tacact 396

<210> 20

<211> 459
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20

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 acccttaaaa caaaaatggc atacaacctc ctccaataaa tacaacatc aatgtaaatt 120
 tagagcaagc ttatgcgcat attttcttac gaacattcac tcgcacaaga tattcttcta 180
 actaagaaaa atgcacccat gcacaatcaa ggcactttcg ttacctacat tatttgtatg 240
 tacttccaag gtgtactacc tacaccacat gcatttcctt ggctaaattt acatacatgc 300
 atgctcaaag cctcttggt accaaaagtt gcacacatgc aaactttatg atgaatcttg 360
 gctatctaca caataagggtg ctacacttca tgctttatat caagtgtttt actaccagaa 420
 gccgcatgcg aatgtcagta tattttcttt tgccgacta 459

<210> 21
 <211> 328
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 21

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 cttaggcact tctctctctt tcgaatttgc ttaggaaaat tgtttccgtg aagaaaatcc 120
 aagccgaggc gttccgtaa cgtttccgtg agtgattttg cgaaggtttt cgaccgttct 180
 tcgacgntct tcattcgttc ttcacgntc ttcagtcttc aacgggtaag tacctcatc 240
 caagcttttc aattcattct atatacccg nnggggccac attatggttc atgtattatt 300
 attctcgntt catttactct ttataccc 328

<210> 22
 <211> 391
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 22

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taagagtaac gtcccactgg taaaactaac tttccaaatg tttgccttcg caggaatggc 120
cccaggaag cttgcctcaa agaggteccag gaaggacaag gcggccgaag gaactagttc 180
cgccccggag tacgacagtc accgcttttag gagcgttgta caccagcagc gcttcgaagc 240
catcaaggga tgggtcgtttc tccgggagcg acgcgtccag ctcatggacg acgagtatac 300
tgatttccag gaggaaatag ggcgcggcg gtgggcacca ttggttactc ccatggccaa 360
gtttgatcca gaaatagtcc ttgagtttta t 391

<210> 23
<211> 352
<212> DNA
<213> Glycine max
<400> 23

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accttatgaa aaagtatgga agatagtaga agagtgtaga gactcctaga atgtgtggag 120
tattctagag aattagtctc catcctagga tacaagtaat ctccactatt tattgtggag 180
gtggagtagt ataaataaag gtaggatect tcattcctaa aaaatctaag tagagagtct 240
ctctgagaga gaagataaat agcttttgaa gtctctatcc tcaaacataa gtaagcctct 300
ctgagagaga agataaatag cttgggaagt ctctatcctc aagcttgagt ga 352

<210> 24
<211> 438
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 24

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tattcccatt ctccccgctc aaccactgaa tcgaattatc tccagccacc caactacacc 120
caaaatagag gttcagaaag gaagcaaact aacactgcc aataaccccaa gttccagggt 180
ttaggtggga attatactat tatcaaaacg ggttctacaa cctcttatag aagcataact 240
cttgcaaaca cttttaatag taaaaaagaa aaaaaaact ttacgtcaca gaactcacta 300
ccaagtgaag aaccaccaac attgtcggtt tgtactctgc agtctgcacg tgtttccata 360

aacagaaaca cattgatttt aaattaatta atcgattaat actaccatca agtagtacca 420
cccctatatt ctttctta 438

<210> 25
<211> 104
<212> DNA
<213> Glycine max

<400> 25
ccacattatt tccatgacac aaattgcaaa atgatgattt ggaaacttca tgcaaaactg 60
gtcatgcatg cacctatgca gacactcaag tgtcaaattt ttat 104

<210> 26
<211> 386
<212> DNA
<213> Glycine max

<400> 26
tgtctcagcg tttatgcgag acagagacca acatgttagc tatcatcgcc aagtaccaag 60
aagagttagg tctagccacg gcccacgagc atagaatcac ggatgagtat gctcaagtgt 120
atgcggaaaa agaggctaga ggaaggggtga tcgactcttt acaccaagag gcaaccatgt 180
ggatggatcg gtttgccttt accttgaacg ggagtcaaga acttccccga ttgttagcca 240
aggccaaggc gatggcagac acctactccg cccccgaaga gattcatggg cttctcggct 300
attgtcagca tatgatagac ttaatggccc acataattag aaatcgttag gaaaattgta 360
tggtctctca gaccttgact ggatac 386

<210> 27
<211> 379
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27

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cttaagcact tctctctctt tcgaatttgc ttggaaaaat tgtttccgtg aagaaaatcc 120
aagccgaggc gcttccgaaa cgtttccgta acgtttccgt gaggaatttc gcgaagggtt 180
cgaccgttct tcgacgttct tcattcgttc ttcacgttc ttcgatcttc aacgggtaag 240

tacctcgaac caagcttttc gattcattct atgtacctgt ggtgggccac attgtgggtc 300
 gtggattttt attctcgntt catttacttt ctatacccc ttttgacgtg gcttaagcca 360
 tttatttaag tcatttctc 379

<210> 28
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 28

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 cctagtctgt ttgcgaagtt tgttcaggaa catgggatta ttgccagta cactatgctt 180
 ggttctccgg atcagaatga tgtggcagaa agaagaaacc gaactttaat ggacatgata 240
 aaaagtatga gaagtaataa aaaacttcct caattcttgt ggattgaagc attaaagacg 300
 gttgtatata tattaaccg ggttccaacc aaggctgtct taaagacacc tttctagtta 360
 ttcaaagggt ggaaaccgag tttgcgacat atatg 395

<210> 29
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29

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 cgtcagggcc tctccctcct gattcaggtc caaccanaa aacattntag cacacagact 120
 ntatctatga actgtacaaa atacacgact cctcaattgt tctcaaaata attttatcta 180
 atcgcgcttg tgattaaact cgtcagggtc caacagtggg tcccatcata atactcgcca 240
 cgcattaact cgtcgccctt agattcatag ttcacaaatc agggcacaca acatctcaat 300
 gcacatatat attacaagtc aatacatact caatttatca catacatttg gtctcaatca 360
 cagtgggtata atctcaattt aacatgttat cacacctcat gaatcata 408

<210> 30

<211> 443
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 30

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 agtctgatat ctcaagatta catttgaata aaatcatgag gttgaattaa ttgaaatact 120
 ttaagggttat agcaaaaaag gtttcagcta aaacaaatgc aaggcagcgt aagaaataaa 180
 ttactacatt agcaataacg cttaaataatc tacataaaca gaatattcca taaagattat 240
 atttaagccc catgctgaga tgcaagtaat atgctgtttc atatttatca aaatatagga 300
 atggaaatga tgcaggaggc ccacagaatt aagtcataaa cctgaactca actacatctg 360
 tgcatacaca taaaccanat cctaccattn taattntaca cctcccccacn acccacaatg 420
 aatatggcct aaggaataca tcg 443

<210> 31
 <211> 398
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 31

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 tgcttgaaag agttccttgt caggactttg tccttaggat caccaatgat ctgggactct 180
 agatgatctt tttgtagcaa tcatccagtt ggttctctga cttatagagg ttgatcatcc 240
 actggtgagt tggacgcata ttggtcttga ctggacctag caacatattt cacgatattn 300
 tctactttca tctcagtaga agactcatct agctccaaca ttgtagtggt aggcttattg 360
 tcattaagtc ttacgtgaat ggctcttcc acagtcac 398

<210> 32
 <211> 458
 <212> DNA
 <213> Glycine max

 <400> 32

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 catcaattcg gctttgacta ggaacaccat cattccctct tctcctcctt tcttcttcat 180
 tatgatctct attctccatt tgatccaacc tctcatggag cacatcatct cattgtttca 240
 ttaacctctc caaatgatgc atcacagctt gcatttggaa ttgcgaaagc cccactccat 300
 cattaggatt tggctctgcc atctcataca aacacatcag acgtatcaag acaattatag 360
 ttgctgtttg aatacctcac tcaactcaagt gtatcacaca attatggttt ttctctaattg 420
 aaacactctt gccttctacc actctaattc cacttgag 458

<210> 33
 <211> 382
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33

agctttgata taatgctttc tttgtattta taggtataga ggatctagcc acttgagagt 60
 gtcttgcccc gactcagtac aatgcattat attagcgga catagctttg gtctacattg 120
 aattagtata tatagctaca ccttattcaa tccaagaatg gaaaaagga agcagtgggtt 180
 aagaatgatc atgggtcaag cttgagtcaa gtaatctgat accaaaccga atgaaaatgg 240
 ttaggttgag tgtgttaa atgtgactgtct caaccacaac taatcacaag tgggatgtgc 300
 ctaagtcacg tcattatatt aaagattctg tgaatgaagg aagaaaaaac acacanaaat 360
 aggggtagag tagggaaaag gt 382

<210> 34
 <211> 460
 <212> DNA
 <213> Glycine max
 <400> 34

cctgagtga acaatgagac tcttcacagt taaatttgaa tttcgacgtt catggacact 60
 ggtaatcgat taccaaaaaca ttggaatcga ttatagcctt ttgaatatat tgggaacgtt 120
 gtaaatcag tttgaaaact ttttcaaact cttttagcta ctgagaatcg attacaacaa 180
 tatgaggatc gattaccaga gagtaaaagc tctttggtaa agattttgtc aaaaactcac 240

gagctataca acgttgagaa aaaacctttt taatacttat attgatagag tgtttgatac 300
 attctcaaat gttgaatggt gaatcttgat cttgattctt gagaactcga gtattgagtc 360
 ttgattatta accttgatgc ttgatgattg acatcatgaa tcgtgaatct tgatacttat 420
 ctgaaggctt tcttcttgag tcttgaattc ttgattcttg 460

<210> 35
 <211> 320
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 35

agcttgtaga gcttgagttc taagaatgag ctgagttatt ttgaacccat tntgctgttt 60
 atttttccta aaatggatta tgaatatagc ttggatacta tggaaacaaa aaatgagtat 120
 tctgatgaag gtgaagtagt accgggttta tccattaatc cggttagttt ttgcgcaaac 180
 attgttccaa tgattaatgg taaatatggt ttgcattacc aaagtgaatg caattctaca 240
 aagaattgca gtcctattgg ggggatgcc accaattgcc ttatattgtg tctttgaaag 300
 aactggtttg ttagatgtaa 320

<210> 36
 <211> 368
 <212> DNA
 <213> Glycine max
 <400> 36

tcacattcac tatcctctac atcatattca aacttgacca aataaatagt acagtcattc 60
 cgactcaaag aaggacatct aagtctcata caattaatat agaacctata tcctaattgtc 120
 acatcctatc aaagcgtggc gctaccgctt cctctagctt gaggtcttct atagtcattc 180
 acctattcat ctgctacccc gaacacagag cttgagatca tcacaggatg cgaacacaaa 240
 cagcacaccg ggagtggatg atcacacttt taactactat agagaaacaa cacaacatat 300
 atgagccgaa gacgatttac ttaccatata tcacattatt tcatgacttt gtccttcac 360
 gatcacac 368

<210> 37

<211> 414
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 37

 agcttatcat ctatttatac tacacatagc aatgaatact tattctggat cactgcttaa 60
 tgaaattaag gatctgttta ttttacattg taaacaggca aatgtattaa ttttaagattt 120
 gtatctaaat tgttctcaac tatatataat tatatacatt ngtattaaca tgtataattc 180
 tagcatacag gcagttttta gaaatatacc atgtgactcg atcatgtgta tgtttgagtt 240
 gataatcttc ttggaggagt gttaagattc aacacatttg tattaatatg atgtgagagt 300
 cacaaattnt tatcattttc aatatatttc aatcaataac aaagaatata tttaaagaga 360
 ctcaacaaat atgtctctac tgtttctcac attattaata taatcaattg cttg 414

<210> 38
 <211> 288
 <212> DNA
 <213> Glycine max

 <400> 38

 gttccaaaga ggtcttcggc attacattca aactcgatcc attgtcgata agtacatttg 60
 cgaccacgtg tgccgtacat atcaccgacg catgtacagc cttgatgtgc cctctcctct 120
 caacgggaat aacttcttgc acgaacgcca tataattgcc gatggctata tgattggcta 180
 tgccgatcag aacgatgcgt gagatataat gagctacact gtcatggaca tgatccataa 240
 tctgagacgc actgatacac tccctcaatt cttgtggatt gaagcatt 288

<210> 39
 <211> 317
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 39

 agcttgtcac tgtggaatta accaagtctc tgagggacgc gttcaaggat aattcgaaat 60
 catatgccat agcgatctct tcaactctgac catcaataat tactaccatg gtttctatct 120
 ccaagatgtc aaccagaact gctacctttt gcctgagctt gaaggacgta tatgacactg 180

aatacaccaa taagtaatta atactacaat ctaatagctt aataacttaac agttgacaca 240
aatattaatt ntcattacct taatgttctg aagtgcacgt ctaaagtttt gtgcataaca 300
gtatcgccac taaaacc 317

<210> 40
<211> 435
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 40

cactatctat acttagcttg caatctatgt gcaccagata gctaataagac ttttgtattc 60
ttncgttatg agtatgatat ctcaagatta catttgattc acctcgtgat gctgcataaa 120
ttgagtatac ttcacgcacg ttgcaaatat aggttttagct taaactgatg cgctgcaccg 180
caggaaatag agtactacat tagcagtaac gcttaaatat ctacattatc agaattattc 240
ataaagatta tattttaatcc ccacgtgat atgccagtaa tatgcctgct catattgatc 300
acaatatatg aagggatatg atgcacgatg cccacagaat taaatcatag acctgaactc 360
aactacatct gtgcatacac ataaacaaa tctaccatt gtaattttac acctcccca 420
aaccacaat gaata 435

<210> 41
<211> 285
<212> DNA
<213> Glycine max
<400> 41

agctatatat aagctcttct ttcacagat gtcgcgaaaa tttaacttct tgttgtgata 60
attagggggg agcagtttat aactggattt gtatctgaca gagagaaatc ttaacacaag 120
tcactctgac actcttattg tataacaaat taaggccact gagttgagtc cagctatcca 180
aaagctgtag gaataaaaaa tctattaaga gcaaacacac acctcgacct gtgttatgca 240
agtaaaggt aatgtaagcg actacgcagt agtacgggtt ggtag 285

<210> 42
<211> 452
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 42

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ttccaatatt agaaattaca aactcaaaag aaaccaataa ataaattcct agtaacaaaa 120
cttggtttttt ataatttcat atttatcaat atttattata taaataataa taaattataa 180
ttaaaaaatg aataagtatt atggttagata tttttataat aatataagat aatatctaatt 240
attaaaaaat atctatcaat gagatcggtc acttggtgta gctaacttac atgaaaagtc 300
aatgagatct gttacttgtg ttgcattggt gtagacgaaa cttgaacatc attagcaatt 360
atcaagggtc tcctatcatc acataaagta tgggtttgat acttaacaat aagcagacca 420
tcacagaaag gatatgatag cactctgact at 452

<210> 43
<211> 335
<212> DNA
<213> Glycine max

<400> 43
agcttctact tatgtggcag ggcgggcttc cttcaccttc ttgtctccaa cgcgaaacttt 60
gaccattatt cttccttccc gcgatgcttc ttttcatgtc cgcttgagtg ggcttatagc 120
ctaaaccata cttcccacga tttccttggg tatttatcag gctagtattg ccgcccgtgt 180
tttttcttaa acccatcccg ggttcataac cgttcccaa cataactcgg gccatcatta 240
tcgctgcacg ggacagacaa ggcttgccaa agagggagtc cacggaggaa atgctgacca 300
cctcaaaaga ctggaaagca gtttctaacg attct 335

<210> 44
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 44

tgcctcanag agatccaaga aggataaagc agctgaagga actagttccg ctctgaata 60
tgacagccat cgtttttagga gtgctgagca ccagcagcgc ttcgaggcca ttaagggatg 120
gtcattttctc cgggagcgcgac gcgtccagat cagggacgac gagtataccg acttccagga 180

ggagatagtt cgccggcggt gggcatcgct ggttaccccc atggccaagt tcgacccaga 240
catagtcctt gagttttatg ccaatgcttg gcctacagtg gaggggtgat gagatatgcg 300
atcctgggtg aggggggttag tggatcccat tcgatgcgga tgctctcagc cagttcttgg 360
gatatccttt agtgctggag gagggccagg agtgcaagta tggccaaagg aggaacccgg 420
ccgatggggt tgat 434

<210> 45
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 45

agctntntgg agtagaaaca tgggaccaac tcattttatt tcaaaaagga agtcatatct 60
agtcaaggtc tgagagacca tacaagtttc ctaacgattt ctaattatgt gggccattaa 120
gtctatcata tgctgacaat agccgagaag cccatgaatc tcttcggtgg cggagtaagt 180
gtctgccatc gctttggcct tggctaacaa tcggtgaagt tcttgactcc cattcaagg 240
aagagcaaac cgatccatcc acatgggtgc ctcttggtgt acagagtcga tcaccctctc 300
tctagcctct ttttccgctg atacttgagc atagtcgccc gcaatcctat gctcgtgggc 360
cgaggctaga cctaactctt tcttgcatg atagctagca tgggtggc 408

<210> 46
<211> 74
<212> DNA
<213> Glycine max

<400> 46

tctcaaggaa gttttctcaa gagagcttct caaggaagct acctagtcta taaatagaag 60
catgtgtaac actt 74

<210> 47
<211> 358
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 47

agcttgaagc atctcatcat aggagatgat gatcacaaag aagcanagaa gggtagtagt 60
aataataata gtaataataa taatagtgat catgagagag gtggcaaagg aggatcaagg 120
aactcacttg gtgaacactt cacagaggaa gagaagcagc ataatcttca gctgggttagg 180
atgcaacaga ataaggacaa cctccaaggc ttgaagttga agaagttggg gcgtcgttac 240
gccaaagttt tggngcattt gatgaangct aagcgtgatc ctcatctang tggatgatgct 300
gggaaaaaac ctgtnttcaa gttatcagcc tagccaggga aaattttgga gttttact 358

<210> 48
<211> 407
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 48

tgcatttcac gagcatcact cttntctctt cctcttcttg ttgtgacatt ntcctattga 60
gaatggaaaa ttatttccat accttcaaatt ttgcaaagaa atgtatccca aaaatgctac 120
tctaaaatag gaagagagtt tgctcttttg ttttctgctg gtccattaat atactaaatt 180
agaagtcatt aaacaagctt tttcaactct cataatttg gcatttacta ttgaaggtag 240
gggaatgatc ttaaacggat tgaaaatatt aagcaaggaa aattactgca gaaattctta 300
acaaatgaaa tcagaagtca ctttctctag acgctgaaga agagcgggtn tgaattggcg 360
aacaccacgc ccacttgatt gcggatctag tctgtgagct agttcaa 407

<210> 49
<211> 420
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 49

agctntaaga cactagtctt cggccaactn tgttttaaca ccaaggcaat taccatgggtt 60
gctcataaat ccatatttac agaacaaaat tngggcatgg ngctcaatac aaatcanaaa 120
gaggttctaa atatgtatta gactaacaac ggcattcaat tagacaaaga gagacttagt 180
tctctaagaa tcaaattcgc atgcaaattg aaaattatag gatttggaaa atcatcacct 240
tttccacct atctttactc ttcaaaaccg aanatgattc caactcttct cttttcctta 300

gagagaaata catgaagaaa ggatggatga agattattcc tgcacccaaa cggagattct 360
aggagcttan naattcactc tttatnatat canaatacaa ggaatcttan aaattactac 420

<210> 50
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 50

tcattgtttaa tcatacattc aatcttatta tagcaganaa ctcaaataaa aattctatta 60
aaaggtagca ctctgtggcat gagtccttat aaatatctac tacaaaagtt ttaaatactc 120
tgtccatgag gaaagcagtc cagtatcttc caatactcta tccattgatc catatttgac 180
cttttcccat accctccata tccaatgcc aatgggtcatc tccttcggga gcatcaaaat 240
aagtctgcgc agtttacgga ttgacttcat cagttntcaa cctagtggta tttttttcag 300
tctaagttag gacattacta tgcaagatga ccttggtcca tgtcaatggt tgagttcttt 360
gaacaactat tgctgactgc accacgcaac actatagata tcatttggag aggcaacatt 420
cat 423

<210> 51
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 51

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agaagaaagt ggctccaatt gcagaagaac cataaggctc tcggttacat tattcattag 120
tcttgctcgt gattgattga tgtaaagatc ttgcaataat cgtcgaanaa caagtagatt 180
aggagccata tacggattaa ggtatttcat ctaatcttta ataatgaggc atgttgtaaa 240
tcctagggct tttggttagat tgttctaggt tacgcacatg ttgaattnta gcttccgcat 300
aaagaataaa gaatacggat canaagttaa aattctaaca actataagat gaacatcagt 360
tgccaaattc tttgcacatg cattggatnt aaagaacaaa t 401

<210> 52
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 52

tagactaagt tcagcctacc atcctcagac tgatggccaa actgaacgga ccatttagtc 60
 attggaggac cttttgaagg cgtgtgtctt agagcaaaaa ggaagttggg agagttttct 120
 tccattaata gagttcactt ataacaacaa ttttcactct acgattcata tggctcctta 180
 tgaagctttg tatggtagaa ggtgtaggac acccctatgt tggttaaagc ccggagaagg 240
 ccttacctta ggaccggaag tgggtacaaca aaccaccgag aaagtcaagt taatccagga 300
 aaggatgagg actgctcaga gtangcaaaa aagttatcat gataagagga ggaaagatct 360
 gaaatttgag gttggtgatc atgtattctt gagaatcact ccgtggactg gggttggtcg 420
 agcattgaaa tcccgaagc tcacacctca ctttatcgat cctt 464

<210> 53
 <211> 342
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 53

agcttttagga taactttata tttgnngaag gacagtagac ccacaattgt atttcatcca 60
 cagaactcta acccacaatt gtatttcacac cacagaactc taaccacaaa catactagga 120
 tcttcaatca tatatcatcc caacatgaat aaataagact gattaagagt cctcaagctc 180
 ttaaatacaa gcccccttg atctttggat ttacaaatca tctaagaaat aagatgaggt 240
 gttctgttat ttgcatcact tcctgagata aagtctctgc agaagctttc aatctcatta 300
 cgaatagcaa tcgtaataaa ggttgcttca agaacataag ta 342

<210> 54
 <211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 54

ntntattgat tnnnttttatg tcttgaccaa gaattagaga ctaattcttt gaaatattga 60
 gatttattta aaagataata tctcccaaaa aaatgttatt atattcaaac tgattaatat 120
 gaacatgaaa aataaacaaa acgccttata aaatttagat ttaggaaatt atttttaatt 180
 actttaggaa atgttattga tgtcacattc aaaaagtatg tgaaaggatg agtgataaat 240
 cataaaattt ggctgctata agttatatcg ataagattaa atttaatttt taactcaaga 300
 attaaggaaa gctttcataa aaagagaaaa atcaaatttt catttgacat gataatgggt 360
 agagcctaaa aataaaatat aaattaaaaa tatacatatc aaaatacatc taaattaatt 420
 aaataaaaag tactaaattc attggaaact agaaaatgga 460

<210> 55
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 55
 agcttgatga ctacaacacc aacaaagtcc aagaatccct ccataacaat gatgctcaat 60
 accaacacgc tctttccac cttctctctg tctctcaggt atatttgcaa ttcattgcata 120
 ttgatatgct catatgcaaa aactagtctt aaattttatt cttgcgtatg gtgtttgttt 180
 attatatgca tagtttgta atcttcctta aaactttatt ttaatatataa tggatgtat 240
 tgaatgtttt taatgggtga gataggtagc actgacacag aagtgtgaa tttattggca 300
 gttgaaagga gaagagatac ttgagcaatt cgaagcttct agttcttctg agccggtcgc 360
 ttctataact c 371

<210> 56
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 56

ntgaaccatc cgtcccatag gagcccaact ntgcaggatg aaggggtcaa acaaaatttt 60
 gatgaagcta caaaggagaa ctttggtata ggaatgggct taattgtaga aaccatcacg 120
 gggagatcct aggggttgcc atgagcatgg tgaaccattg ttatcgaaca cacatggcat 180
 aagctgtagc tttcaaattg gccttaaaga tagctaagga cctctttttt tttttttttt 240

ttgacattgt catggaaca gattgcttga agattgttta gacttggcac aacacaagga 300
agttttcaac ttctatttt gaaggcatcc ttgatgattg tagagagctg cagagtagag 360
gttttcatac gttcaaaatg tcttttgtaa agcatacagg aaacaaagta tatggttcgt 420
tagtgaattt agctcttggg tttagggaac gttattgga 459

agcttctaca ggtgggtcagt aagaggaata gtgtaaggaa ttatggaaga ttaaaattcc	60
tagcaaaaata acagttttttg cttgggtggct aataaaggac agactaccaa caaggatgca	120
tctgcatagg agacaagtgc aactgcagga tctacgctgt cctttnttca gagaagctga	180
agaggagtgca tctcattttgt tcttccattg cgtcttcctc caaccaattt ggtgggaatc	240
gatgtcttgg ttgaatttac aaagtgcctt tctcttggg cctaaacaaa attttctaca	300
gcatattttc atccaagcag aaggttttaag gattaagaga tggagatact ggtggatggc	360
agtaacttgg gccatttggg aattcagaaa cataattctg ttttcaaattg cagaatttga	420
tgc	423

ttntgtgtag	tagtgataac	aagttcgtta	ttggtgacaa	agagagggaa	atcaaggaaa	60
gcactaacat	ggaaaatgaa	gtttgccaac	gtgatgaata	aatgatctag	agcaaaaagg	120
cactgaaggt	aaacgacatg	gccatttcaa	agaaggaaca	taagtaggtg	ctatcactag	180
tgcaaaaaat	gcataattaga	tcaacttttt	ggatcagctg	tatgagcact	gatttttttt	240
aagaaatgca	ataacaattt	tgtaaatgaa	aagaatgaaa	tcggtctaaa	aaatactacc	300
ttttggactc	atggtttggg	ttgtaagaaa	tttttgcac	gtattagaaa	catgagtcac	360

attaaaacaa atgttgaatc gttntanaac aaatttacta tggaattntg tagcacatga 420
 ttaacctang tcacactcag aaatatgatt caatatgacc cctacat 467

<210> 59
 <211> 361
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 59

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 cttgacaaaa tacatgagaa tacaaaaaaaa aagtccttac taciaagact actcaaaatg 120
 ccctgaaata caaggctaaa accccatact aatagaatgg ccaaaatata aggcccaaaa 180
 gaaggaaaaa cctattctaa tatttacaaa gaagagtggg tccaaccttg acccatgggc 240
 tcaaaaatct accctaaggt tcatgagaac cctagggcct tcttttagtag ctctagccca 300
 agcctcttga agtcttctat ccaataccct tgnngggtag gattgcatca ttctgcatat 360
 g 361

<210> 60
 <211> 450
 <212> DNA
 <213> Glycine max

<400> 60

tggatttctt ttttagtaggg aatctatcct tcctaagata gagccaaacc tagtcaccct 60
 cattaagaac tagctctttt ctctctctat tgcctttagt tgaatacacc tttgtttgat 120
 tctctatttg gttcttaacc ctctcatgca tcttctttac aaattctgac ctagattccc 180
 cttctttatg tataaaagaa gtgtccagtg ggaggggaat gaggtctaac ggtgttaggg 240
 gattgaaccc atagacaacc tcaaaagggg actgcttggg ggttctatga acccccctgt 300
 tgtaggcaaa ttctacatga ggaagatact catcccaaga cttatgggtg cctttcagaa 360
 gagcccttaa gaggggtggat aaagacctat tcactacctc tgtttgccca tcagtttgtg 420
 gatgacatgt ggtagagaac agaagtttag 450

<210> 61

<211> 247
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 61

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 gtgatgctag tggaattggc attggagctg tcttgataca caacataatg cctatagctt 120
 atttctcgga gaaagtggga agagccttgc tgaattattg cacctatgac atagagatct 180
 atgccattgc gagagctctt gatcattgga atcattatct tgcggctaatt cactttatat 240
 tggattc 247

<210> 62
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 62

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 aacgcgcgtg tcttatagcc tataggaggg tgagagagga ttcttccatt aatagagttg 120
 acttataaca acaattctca ctctacgatt catatggctc cttatgaagc tttgtatggt 180
 agaaggtgta ggacacccct atgttggata aagcccggag aaggccttac cttacgaccg 240
 gaagtggtag aacaaaccac cgagaaagtc aagttaatcc aggacaggat gatgactgct 300
 catagtaggc aaaaaagtta tcatgataag aggaggaaag atctgaaatt tgaggggtggt 360
 gatcatgtat tcttgagaat cactccgtgg actgggggtg gtcgagcatn gaaatcccga 420
 aagctacacc ttactttatc ga 442

<210> 63
 <211> 371
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 63

agcttatcga gaaaagaaat tgtagaatgt ttgtaaaca cattgttaag ttcaactaaa 60
 accctttgta gagcattatt cccaagtgct gtaagaccaa ctgtaaaaga aaaaaatta 120

aacacttgac aatggatgca tgcactacta tcaactatacc agctagcttc attcgtctct 180
 ttcaagcatc tatagcaatt ctttgcaata naatcttgaa actaacactt ggacagctag 240
 atctaaccgt tgttgctcga gtgtgaccaa attaatgggt atatttatta tgaataattg 300
 aatattanaa tactcttggc agtgcatacc tacanagctc acttgtggga caaaacatta 360
 cggtctttaa t 371

<210> 64
 <211> 442
 <212> DNA
 <213> Glycine max

<400> 64

gtgcttccac aaaatagtct cggccgaaag acgctgacat cttccggaaa ggtgcagatg 60
 accacattgg tctctgcgtg tcatcggact tggggctctc gaataacgag gtgcggataa 120
 ccgtaaagtg ctctgcatgc catcgaactc ttgggtcgtt ggatagcaag aaggtgacac 180
 taaatagtct cagtcggaag acgtcacag ctccaggaag agtgcagatt accacattgg 240
 tctctacgtg tcattggact tgggggtgtc gaatgatgag gtgctaataa ccgtaagggtg 300
 tctccgcatc ccaccggact cttggggcgc tggatagcaa aattgtgaga caaaaattgt 360
 ctcgaccgga agatgctgac atctctgtca dgggtgcaga tgaccacatt ggtctccatg 420
 tttcatcaga cttgggatct cc 442

<210> 65
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 65

aaaattacta catatcatcg tatgcttata cctacacgca tttttgcaac ctccaattgg 60
 ctctatagcg gaggtacaaa aactgcatca cgatcagctc actatacgaa aactataatt 120
 caactcaatc ctgcgaatg tgtatggatg atctacgcag gagcatgaaa cagacctcaa 180
 cacacttgca tgatacttag agaacagtgt gttgcgcaaa aagtctgcgc tatacttgcg 240
 ccttaaacac aaggcgctat atccactgaa cctgtactgg ttagaccacc acctacggct 300
 cgtagctcac acaactttag agcacctatg ttgagtccta tccaccata acgcacgctt 360

aagaatatct taagcc

376

<210> 66
<211> 370
<212> DNA
<213> Glycine max

<400> 66

tgcaggatga ttgggtttta ctttatgctg atgacgctac acaggatagc tttggtataa 60
gactgggctt acttgtacaa accatcgagg cgagatccta tgggttgcca tgagcatggt 120
gaaccattga tatcgaacac acatggcata agctgtagct gtcacatggg ctttatagat 180
agctagcgac ctcttttttt tttttttttt tgacacttgc ttggaaacgt atcgcttgaa 240
cattgttttag acttggcaca aactaggaa gctttgacct tectattgtg aaagcctcct 300
tgacgattgt tgacagctgc acagtataag aattcatagc ctcaataagt gttttgctca 360
gcatacagga 370

<210> 67
<211> 378
<212> DNA
<213> Glycine max

<400> 67

agcttgggca tagcaaatga gaaaaatgag tgacaaatgt gaaagcaaga gtcatttcta 60
gggtaaattg ggtgttgagg ggtcaaactt tgaatcggtg gagttttcgc cttacaatca 120
ctttgagcaa gtctaaatta atgttatata ctggtttgag atgagaattt actccaaaat 180
taccaccattc tcattttcac ttctcaaacc ttgaaaattc actcaattaa tgggttttgg 240
atacctagat ttggatttac cttgatctga agctggtttt tgcgttaaata acaatttata 300
catgatttac gacttgtagg atccaatttg agcaaaaatg gatgtgggca agaattggatt 360
cgaaatctgc cctattat 378.

<210> 68
<211> 296
<212> DNA
<213> Glycine max

<400> 68

ttatgttggg gccacatgg atggtgcatg aatgtataat cattatcgct atatgcatga 60
 cctggaaatg atttggggca ttcccttatt cctgaaccac ctgtgaaaca gacagcccgga 120
 catacatcat gtctcgccac ttggaggcct tttgagccaa acattaactt ttggccataa 180
 ccttggccta agatggaaat ttccaacctt accctccgaa gagagaacaa acgaatcttc 240
 ccaaacgaag cttctttttac cttgagttat aagtgtcgag ccagacaacc gattag 296

<210> 69
 <211> 365
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 69

atctntatgt tngngaacac tgaaatacag actaaaaaag caaataaaaa aatatgctaa 60
 aggcgactga agcaaaaaga gacaaaagtc ctccaaattt tacaaggaag gcatagaagt 120
 gtaatgagga ttaatgtata agacaaatgg agtagagccc agcccaaata gttgaaatga 180
 ataaagtaca actaaggctc tcaaggntct tactcaatat aacccttaaa cactctntga 240
 gcctttctga tcttttcttt catagccttc gtaccctga ccacgttaca agcccaacaa 300
 agcccatgtg gatcaaggaa ggactaatta tgcttttgag tttggattct ggaatagaac 360
 ccaca 365

<210> 70
 <211> 321
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 70

nttcatatgc accaagaata gctcaatata cttatagaac tctcagatac aatgataaga 60
 atgaactcat acttttggatg aaattccata ttgagtgtat tgtggaaacg acgcacttca 120
 tgtgatgtgc attgagcaga tcttcattct acaacagatc ttcttatact ttagctattg 180
 attacttctc atggcttaaa gttttactct tcatcagtga gcaatttgac ttcttcattg 240
 cataacataa ccagagacac tttcgagccc tcttttaagc attctcgcca atgatacttt 300
 ctgaatgact catgacaaca c 321

<210> 71
 <211> 311
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 71

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 ataattcgat ggtagccata accccagcca aggttcctca acctccattt ttccgaggat 120
 actacttgaa cacaacatgt gcttatcgtg gatgagttct agggcattcc attgagcatt 180
 gtangaccct gaagcataag gtgcaaggtc taattgatgc gaggagaatc gcttgtgatt 240
 tctgaaattg caagcgacac catacatggt gcaatttgaa ggggtgttgtt agatgtctct 300
 aatgactcat t 311

<210> 72
 <211> 423
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 72

nttcacanaa tcattaccaa agagtntac tctctgataa tctattacca gaaggacta 60
 atcgattact agtggttttaa aacattaaga tttcaaattt caagagttac aacttgtgtt 120
 taaacatttt taacttgtgt aatcgattac acaatacttg taatcaagta ttgtgttattc 180
 gattaccagt gtttctaaat gttttaattt tcaaaattca aaatgaagag ttacatctgt 240
 tgatgtgtgg taatcgatta ccagtgactg atttcgaaaa atacatttcc aaaagtcaca 300
 attactcaag tgacttgttt ctgaagattc tttcaaaagt cacaactttt taagtgacta 360
 gttntaaaga aattgccaag agtcataaac tntgacttga gttatcaaga gattataagt 420
 atg 423

<210> 73
 <211> 397
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations

<400> 73

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tggaggaatc ttctggaggg cccaagtggg ccttggtgct atttgacccc ccattttttac 120
taaatacacc cctgcccttt ttgtgtgatt cttttttcgt aaagttacgg aaacttacga 180
atttcgtaac gatacttatt ttctttccgt aatgttacag aaccttgagg attacataat 240
catccccctt ttgacttacg gaatgttacg gaacctcact atttgtgcaa cgatgcttcc 300
ttttgatttc cgggtgtgtca cggaacctta cggattgcgc atcaatatat tcttttgatt 360
tccgcacgtc acgaaatttc acaaatngcc taatgat 397

<210> 74

<211> 465

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 74

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ttgagattnt aacagaaaca ctgggtaagc tgccaactaa attgtctatt ggtcaacctt 120
cacactcttc tgttttgcag gttatagggt gtaccatctg tggtagaggct catgaaatgg 180
gccaatgtat tcccactaaa gaaaacactc aagaaattca ttatatggga aatcaacaac 240
gacaaaggta tactcaagga ggattttcag gcttcacgca gggtccttat aatcaacaag 300
gacagtggag gacacacctt gncaaccagt tcaacaaaga ctagaatggg ctttcaaaca 360
gtccaatcca acaagggcct aacatattca agaggactac taagctggag gagaccttga 420
ctcagttntt gcaggtaaca atgtcaaac atanaagcac tgagt 465

<210> 75

<211> 418

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 75

agcttatact caataagagg atcccgctgc gcatatcccc gtaacccac ggcttgctga 60
acaaatttta gtgcctgcag atgttctttc cacaggcgat cgatattgct taagattagg 120

aaccgctctg cttctttcat caagcctgct gcttggtgct ccacaatatc ctatggggca 180
gcattggttg taataaaaag gtaaatttaa aaagaaataa atggtaaaga aaattatgtg 240
aaaagacaag gccactgaac caattcaaga cgactcaatt tttagacatg acacatgatg 300
gtaaaagtcc aaccttatat agcacaaagt tattacaagt tgcactgagg tttgataaat 360
ccctctcccc ctttcccgan aatgtataat caattacttg atttaaataca cttatctc 418

<210> 76
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 76

tgcctanaga ggtccaggaa ggacaaggca gccgaaggaa ctagttccgc tccggagtat 60
gacagtcacc gctttaggag cgttgtacac cagcagcgct tcgaggccat caagggatgg 120
tcgtttctcc gggagcgacg cgtccagctc agggacgacg aatatactga cttccaggag 180
gaaatagggc gccggcggtg ggcactactg gttactccca tggccaagtt tgaccagaa 240
atagtccttg agttttatgc caatgcttgg ccaacagagg agggcggtgc tgacatgaga 300
tcctngntaa ggggtcagtg gatcccggtt gatgccgacg ctatcggcca actcctagga 360
tatccggttg tgttgaaga gggccaggaa tgtgagtat 399

<210> 77
<211> 397
<212> DNA
<213> Glycine max

<400> 77

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aatgatttat ttgcatgtta aaacatagat ttaaccttaa atttcaccca aatcatagtt 120
ttctagcaaa agttacaaat aaaataagtt taaggacctt tagtaaaatg aaaatatgcc 180
ccatatttgg actgagagtg acaacagtat ggactatttt tattaacggtt ttgacctcaa 240
aaatgagttt tctatgtttg aaaatgtatg gtagcgtata atatttgtga gaatccgact 300
aacagagcac caagagcact aaacataagg tatgagcgaa actgtgaaga actgagtcac 360
aaagagattc tattaccgta gatgacttaa ctttggga 397

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<210> 78
<211> 461
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 78

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aacaatgtgt gctttcatca agtaaattct tttggcatca tcaaaacctg cacgattcac 180
atztatgtca ctcaacctct aggttttgag atcaaaagga aggaattaat ggtgtacaag 240
ttgaataagg ccttgtagtg tcttaacaa gcacctagag cctggaatag aaggattgac 300
tcatttttca tttagaatga attcaccaag tacacaatgg aatatgatgt atatgtgaaa 360
aggaaaacta agggaatact tttgatttgc ctatatgctg atgatttgct tgtgactggc 420
agcaatagtg aagaaataga gaaattcaaa gttgagatga t 461

<210> 79
<211> 347
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 79

agcttctcct attctgtgac tcttccgttg gaaaatcctg cttgcttctc agattcgtg 60
tgagttatca ctttatttgc ttctcctaatt ctctccttct gttcacttcc tttgtttctt 120
tgtttcgttt caggatgact cctatgtcga cagctacgta agtactattg gagttgattt 180
cgtaattatc actcttcttc tcttttggtta tttctattta tggcccaaca ctcatctta 240
tttattttcg naaatcaaac catgggcttg gaagggaac cgccagctgc agattgtagt 300
attctaagta gtggcggttg caccatcata tagcagtgtg ggacttt 347

<210> 80
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations

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<400> 80

tcagggtata aagaaacttc atgagccttt gtttttaagc tataattcgt attgctcgct 60
tagcgcacag ccgcccttat cgagtcaata taacgattgg ttttaacaaa gccttggtgct 120
tagcccaacc tcgcgctaag cccaattcca aattttcaaa tcccagagag ttttggggct 180
tagtgacgta ggcttgcgct tagcactgtc tgcaactcaa aattgttctg caatttgcgc 240
ttagcatgag atgtcaggct tagcgctaaa tcaagctcta acttacaggg atagtccang 300
cttagcgcat ggaatgcgct aagcataatt ctatgagttt caaaaatagt gaaggattgg 360
cgcttagcgc atcttgtcgc taagcccaat tcatgaaagt tcaattccag ggaggaaatt 420
gagcttagcg cangacagcg cgctt 445

<210> 81
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 81

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ttctcgttgt gtgtactttt tatacgccct gtcgacgtgc ttaagccatt ttacttaagt 120
cggttctcgc ttaacttaaa aataaaatag acttccaccg aacgtgtgaa ttgattcata 180
tctgacatca tattgagttt ataagcatct tcttgaaaag ttgaacaagc ataagacatc 240
atattgtaaa tcaaacaagt actaaaacta tgcaaccatc cgtgtttcat actttcagta 300
tcgtgtttaa attatgatgc atatcanatc atcatgaaat tcttccactt ttgaaagcac 360
caatgaaatg ttcgttctcat ggtcagt 387

<210> 82
<211> 294
<212> DNA
<213> Glycine max

<400> 82

cccgcctcat gcctacgata gcaacactct aatacttcca taacgttagt agttatccat 60
aaacctcgct tagtttgctt atgagcataa actagagtgt gatgctacat agatttacct 120
tgcaccacgc cattagttag atgagtatgc gtaaccacat agaaccactg attcggaaca 180

tgatatacat atgacgatga gttattctga tcctagatat aattaggatc cccgttgtag 240
atcgggtggct catgcacttt cgacttagac accaactatg gatgagtcga ttac 294

<210> 83
<211> 315
<212> DNA
<213> Glycine max

<400> 83

agcttctatt attagctgaa ccattgtatc tatacacaca agctgagtgt tattcagacc 60
attagagttt atctctttta tcttagtgag agtgattctc ctaaattctt gagtgattca 120
agaacaccct ggctgtatca aaggactttc acaacctttg tgtgttgccc tcgctggaaa 180
gagtgattct ttccttcccta tcattctccac ccttggttctt tcaaaccaca attccagaaa 240
atccacctct gcccaaaatt atcttgtgac cataactccc atgttacaca ctcagattaa 300
gtgattcttg agcct 315

<210> 84
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 84

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caagatgcac ttgggaaact atcgactgac ctggctattg tgcaacctgc acactctaata 120
gatttgatgc tatacggcgc accatatgag gagaggctca tgacttgagc ctgtggatta 180
tcactaacga taacctcaa gagattcatt atatgggagg tctgctgcga ctctgtatt 240
ctgccggatg attgttaggc gtccagcagg gtacctataa tcaacacaga cagtggagga 300
cacaccctct caaccagatc gacgaagact ataatgggcc ttcactctgt ccactattac 360
aaggggctaa cataactcaag aggactacta ggctggatga gaccttgact tcagntttgc 420
aggtagcaat ggcaaactcat aacagcact 449

<210> 85
<211> 361
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 85

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gtcagcagag gagcacaaac cacaaccct tgcgacaggt acagatttct gattcaaggc 120
caactgggtt accaagttga ccaacgcac cagtttgctt tcaagcttct tagtttcaga 180
tgatgcagat gggttttag ctacctcatg cactcctcta atgattatgg catcatttct 240
ggcgctaaac tgctgngagt tggaggccat cttctcaatt aaatttctgg cttcagcaag 300
agtcattgtc ccaaaggctc caccactggc agcatctatc atacttctct ccatattact 360
g 361

<210> 86

<211> 344

<212> DNA

<213> Glycine max

<400> 86

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gctctccaaa ccttgaaaac ttgcgctatt catcttttca ttctcttctg cctttgccaa 120
aaagaattcg ccaaggacta accgcctgaa ctcttgatgt gcctctcttc tcctttatac 180
aaaagaacaa aggactaacc gcctgaattc ttttgtgtct cccttatgcc ttgacaaaga 240
actctgaacg acacaccctg agaattcttt tgattattgc cattccctaa tacaaaactg 300
tcaaaggact agccgcttga caattgtttt cgatcccat tcac 344

<210> 87

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 87

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tattcaactc aagggtcana ttgtttcatg gcaagatcaa gtctataaca gccgtaactt 120
ttaataaata aataaataaa taaataagta aaaataaaat aaaataatat aattaggtca 180

taaatttcca ctatataaat caaatgttaa cctagagcag cttttacaaa acacttatgt 240
 ccttttctct tcttctgacg cacaagaatc ctaacagagc aactggagga ggagctctag 300
 agagcaccag agacgccaca attgctaattg gagaacgacg gagggactac atcgaggtaa 360
 gggatgagtt attcacgctt gnggattaga attaacatgt at 402

<210> 88
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 88

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 caatagtcac atctttttgt gtggttcttg aatggctatc ataggcctat atatatgtga 120
 cttgagacac gaatttgaaa agagtttttc agaacaaaaa ggtctgatcc tcttataaag 180
 caaaatcgcg ttatcctctt acaaattcct tggccaaatt acttgtgatt caataaggaa 240
 ttatttgagt gctcaaattg ttcaatctat ctctttcaag agagattact tcttttcttc 300
 ttctttattc tgaagaggga ttaagagacc gagggctctt tgttgtgaaa gaattctaaa 360
 cacaaaggaa gggtagtcct tgtgtgttta gaactcgtac aagaaattta caagatagtg 420
 gaactctcaa gcgggttgct tggggactgg a 451

<210> 89
 <211> 563
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 89

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 ctatagtcac acgactctgc tcctaagcct cgcaccgcac nntttgttg catgcatgca 120
 catacaggcc attcgagtcg gcaccctga ttctgtatat ctgcctgnat gcatgcaagc 180
 ttgttttata ttctcaccac ttgagatgat gacaaccctt gtatctagaa acacataccc 240
 atactctttc cctagtcgat cactcactta ataatacata ttctcgccct ttgattttga 300
 gtttatgctt cacttcgaat tagatcaatt acttacgcga gtccttgatt taatccctat 360

ttccttcccc ctttggcatt gacataaagc acaagggcgc caccaatctt aaacatacat 420
 acatgaccaa tctttgcaat atagtcgttg aaagaatata ttgccgacta gcaaaggact 480
 gcgtatgcac caaaatattg tccaacagtc attgagatga cggaattgtg gccatcatta 540
 tagtgcaaaa gaactaatta tcg 563

<210> 90
 <211> 559
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 90

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 tgcgcttaac actgtttcgc actgaatgta cgtcgtccct gtggacttac aatgagatgt 360
 catgcataac gctgtgtcgg tctttcactt acagtgcagc agaacgctta actcctgggt 420
 cgctcgtaaa caggctcata ctattccata gactctcggg gagacggact cactgcatcg 480
 tggacgggta cccttgctgg ctatgaaatc ccatgagagg ttctcctaga cgggtctgcg 540
 ctttaaagtg ctctacatc 559

<210> 91
 <211> 396
 <212> DNA
 <213> Glycine max
 <400> 91

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 gcacaacaag ctttccacat acacaatgcg cgcataaacc caccatcccc tgttgcccac 120
 ctccaactga gctcacgtac tcccacgtag cccatatacct cgtttctctc aacaccgggt 180
 ccccatcaat cctctcaagc ttccacaaca tccaagcaaa acaacattca aacagcacia 240
 gctatcacag ccaagcaaaa cagagccaag gcagaaaact ctgctcaaca catcaaccaa 300

aatcacagct tttctcacgt agagaccaca gtaacaattc cttcgatcca attcgttaac 360
cgctggatcg actccaaaat tatactggaa gtctat 396

<210> 92
<211> 360
<212> DNA
<213> Glycine max

<400> 92

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tgtacttaca cctttccatt gtctatacac aagacacatt gatcttccac tggatgatgaa 120
tatgcaaggc tagacactcc atctatccaa ggagctactc caccactggc taaatatata 180
tatggtctat tcatgtctact atctgcgaga gtggatcata ttcttgaatg ctagtcttga 240
taatcatgaa tatgaatatg ctgaccaatg ctaatgactc acgttatgga ttcatttgct 300
tcatttcgaa gatagacaca aagtgtttgg atgaactctc acctaatttg agatctcaat 360

<210> 93
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 93

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gagtaatttt gaaggaatga attggcacta gaagaagaaa ttctttaagg atgctaata 120
ttatgtgcgg gataatcctc acttgctcaa gattagagca aataaattga tataagatgt 180
gtcatttttg agcattcttt ggcattatca caattcacct tatggnnggcc attttaatgg 240
agaaagaagt gctgccaagg ttctccaagc angaattttg tggcccatgc tatataaaga 300
tgcacatttg tatgtgacac aatatgacaa atgccacaga aaatgaggaa tttcaagaac 360
gaatgagatg gccttgaaca acattcttga agntgaagtt ttgactg 407

<210> 94
<211> 287
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 94

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cccagaatta tgaccagtcg ttcaggtgct tcacttttgt ggacttacag ctatcaccca 120
tggtggaaga atctgaagag atcctatgat gccctctagg gggaaggaaa ccatacctct 180
tctcangatt ctatgcctct ttagctagaa tttctaagat agtccatatt tcggcgcagg 240
aattacacca cagaaagcaa gtcgaaaatg gagagagtgg agtaccg 287

<210> 95
<211> 380
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 95

agcttcggaa taaagtgatg aggtacaagc cctaaaggca gagcttgaaa gagccccgggt 60
agtcaaagag aagttcaagt ccatagccat canagtctga agagagtatg atgaactaag 120
ggacgtcaat atggccaccg ctgaagcctt ggaatgagaa accatgaagg cccgaaagga 180
agaacatgac caaaacaaag ttntgagggg ctttataggg cagcaatagt gagctcaagc 240
tccaaagagg tgaaaggaat catcacggnt caaaggcatg atcttgaagg acgagctaaa 300
ggcttgcctt angtcgaaaa gaaatttgct ccaacagtta aagtgagact gaanggaata 360
tgtgggcat catgatgag 380

<210> 96
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 96

tgtaatcgat tgcacacata ctgtaatcga ttaccagagg agttnttcag aaaatattct 60
caacagtcac atctttttgt gtggttcttg aatggctatc ataggcctat atatatgtga 120
cttgagacat gaatttgata agagtttttc agaacaaaaa ggtcttatcc tcttataaag 180
caaaatcggt ttatcctctt acaaattcct tggccaaatt acttgatgatt caataaggaa 240
ttatttgagt gctcaaattg ttcaatctat ctctttcaag agagatttct tcttttcttc 300

Introduction

agcttgcaga	ctataacctc	gaccaaacac	ggccgtgttt	ctgtctcggc	cgggatttaa	60
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ggattgagtg	ttataggggt	gccttgggtg	tttcttagtt	atgatgaaat	tcctaaagaa	300
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<210>      98
<211>      458
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      98
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41

<210> 99
 <211> 349
 <212> DNA
 <213> Glycine max

<400> 99

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 caatattgaa aagcaaggga gctaggggat ccccttgcct caaacccta gaaggattaa 120
 actccttaga agggctacca tttatcaaaa ttgatatcga tgctgagtgg aggcaagctg 180
 atatccaaga tctccatttt ggacaaaaac ccattctgca cagcatgtaa tccagaaaag 240
 accaagaaac tgaatcgtag gccttttcaa agtccacctt aagaatcatc acaggtttct 300
 tatttctcct tgcttctcct accacttcat taaggatcag aataccatg 349

<210> 100
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 100

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 gaacctgtaa gtgaaagaaa atatacagac ccatgtaaac tatagaacat agatctaacc 180
 ttttaagtgg aaaataacat aaacgtagaa gtatgcaaat gaagatttac caaatgaatt 240
 cagtaatagc aactttacct gaaagtgtaa actgttaatg cagcacccaa tccgccaaaa 300
 caatgggacc atgatcctct ggaactctac catgttaata acttccaaaa tttcttccag 360
 ttcaccaga aacatcacct ctttctgact atttgttgct ggccaatatt tcaacaagcc 420
 gcttatcaca at 432

<210> 101
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 101

agcttggtcaa ggcctaagc atggacaagt gttgttcagt gttgagagt gtagccttga 60
 caagtgttgt cggggttgct tctgtcaagt tgtctggggg ggacaccctt tttgatgcaa 120
 gaggtccaa gaggattggg ctagagctgc tgaagaaggt cctaagggtt tcatgaactt 180
 taggatagat ttttgagccc atgggccaag gttgggtcca attatctttg tacgtattag 240
 attacgatgt cactatattt ggttcttgta attagggttc cataatgtag gtaggggtacc 300
 ctagaaatat aggatttttc agcccttgta ttttagggca cctagactag ttnttgtatt 360
 aagggtagtt ttgtaatttc acatgcacta agtgaatatt taatgt 406

<210> 102
 <211> 451
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 102

tntaaggccc tcaaagtact ggatggcaac accccactta aatgattatg aaagagggat 60
 aaatatgtga gattcttgga caaattaaaa gaaggaagt gacctgtaaa gttattggaa 120
 gacaagtcta gataaacaag ttggctgagt tctgagaatg aactaggaag tgttccatta 180
 aattggcagt aagctagatc aattgtagat aactgcttca tattggaaat tgcacctgga 240
 agctttcctg agaaatttgt atagctaaga ttcattgtat gaagagaacc atgttgtggg 300
 aagtttgga aagaaccccc aagatcttgg ttgtctgaga tgtcaaggac cttcaacgtt 360
 gatatttga atatatcttt tggaaaagaa ccattcaagc cacaacttct taactctagt 420
 gtgactaaat tggagaaatt acaaaggatt c 451

<210> 103
 <211> 410
 <212> DNA
 <213> Glycine max
 <400> 103

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 aatgatttat ttgcatgtta aaacatagat ttaaccttaa atttcacca aatcatagtt 120
 ttctagcaaa agttacaaat aaaataagtt taaggacctt tagtaaaatg aaaatttgcc 180

ccaaatttgg actgagagtg acaacagtat ggactatttt tattaagggtt ttgacctcaa 240
 aaatgagttt tttaggtttg aaaatgtagg gtagcgtata atatttgtga aaatccgact 300
 aacagagcac caagagcact aaacataagt taggagcgaa actgttgaaa actgagtcac 360
 aaagagattt ttttaccgta gatgactcta acttgggaatc caagtctctg 410

<210> 104
 <211> 460
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 104

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 aacaatgtgt gctttcatca agtaaattct tttggcatca tcaaaacctg caagattcac 180
 atttatgtca ctcaacctct aggttttgag atcaaaagga aggaattaat ggtgtacaag 240
 ttgaataagg ccttgtatgg tcttaaacaa gcacctagag cctggaatag aaggattgac 300
 tcatttttca tttagaatga attcaccaag tacacaatgg aatatgatgt atatgtgaaa 360
 aggaaaacta agggaatact tttgatttgc ctatatgctg atgatttgct tgtgactggc 420
 agcaatagtg aagaaataga gaaattcaaa gttgagatga 460

<210> 105
 <211> 411
 <212> DNA
 <213> Glycine max
 <400> 105

agcttcttca gaccatgata ctctaggacc tcaggaaagc aaaatggtat gaattcaact 60
 tgggtgaatc aactcaattg ttagatagtt gtgccggtat aatgcttcat agtgctcttt 120
 tgcaaaccat ggcataaatt tgggagggga tgagtgtttt ggagattccc cctttgtaga 180
 tcacccaaca actttctttc tcttcttctt catthttctcc tctatgagct ttgttttctt 240
 ctctttttta ggcttaaggt taaaggagc attgttgatt gcaaccctct taatatgttt 300
 ccttctaggt tgggtctaaca tgggtgatgg gaagaagaaa gtgatgggtt gaaggaatta 360
 cggaagaaga aagggatcgg aaaaaggggt acttagcatt cccaaaaact t 411

<210> 106
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 106

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 actttgtttt ctagccgtgt atttggtat attatgacat ttggataatt tagtatttct 120
 ttatttgcac ggtttgattg aacaattatg aattatgtta tatgactatg tggtttttat 180
 atatttgatc tattcatgtt tcttccttca tgattggctt atattcttca atgtatgtct 240
 tgtgaatgat taatagtata tgtttgcct atacttgta cgcactttgg ctttttgttg 300
 atgccaaagg gggagagaaa tagggattaa atcaagaact cacataagta attaacttaa 360
 tttcaagtga agcatanact caaaaaacac aggcggagaa tttaagtga tgttcgacta 420
 ggacaaaatg tgtgtatgaa tttcttgatt tcagggttat cat 463

<210> 107
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 107

agcttgcatt attgatggag aaaagggaac aaccatgaat ggacaaagta atttagctgc 60
 tactaactct gtttttctact taagcaaate aatttctagt gatttttaac catcgaaaat 120
 gaatcttata aaattactgc ttcatcatca tttagtgggtg ctatttgatg gcaataacta 180
 aaaacattaa cggaatataa gtttaaaaga ctaatcacia ttttgtttgg gaactaaaaa 240
 taaaaacctg aagaaatcca gacataataa acataatcta cccaactta tccaaaatac 300
 attacattct atgttctata atcccttttc ctttttttaa gattttttta aaaatattat 360
 attacaaaaa gtatatattg ataaagcatt cttttttttc aatttt 406

<210> 108
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 108

tgcgatgat ggtcatgatg actacggggg atgacgactc ctgtgaggaa cacacagctc 60
tactgagtca gagaacatct caagttattc tggatcatgt ctagagtctg tgattcaagg 120
agaattcgcg tgtccagaag aaagcctaga ctcaagaatc tagagtctct caagaatcaa 180
gatcagcatt catgactcat gattctagaa tgatgaatag actctttccc gatcagtatt 240
aacgagtttt tgtcgaactt tgaatagcac atgagtgttt gacagaacct ttaccagcgt 300
agtttgactc tatggcgctc aattaccagc agcacaatga gctcgaaaaa agttttcaga 360
ctgaatttac aacgctccaa atattttc 388

<210> 109

<211> 318

<212> DNA

<213> Glycine max

<400> 109

agcttatatg caatgtggta ccatgtcagt gaataacctc gtcgggcgcc taggagtaca 60
tgacaagaca aaccacacaa taagtagtca agtcactctc actaggtaat atcatagga 120
gaccagtcag ggtcacagtg ttttgcgaga atgatccaac catatgggat caacataggc 180
ttaaaggagc actcaaaccg tgtaaccccc aaggcctaca ctccgaagag ttcgtcaggg 240
cctctccctc ctgattcagg tccaaccag aaaaatttta gcacacagac tctatctatg 300
aactgtacda aacacact 318

<210> 110

<211> 165

<212> DNA

<213> Glycine max

<400> 110

tcttatccaa cgctcatctt ggtggagaag ctcttcttc catggcttat tccctagtgg 60
atggtgcctc ctctacctg atctactttg ccttcgcta tatctccatg gcggaatac 120
gccattaaag gacctcatcg aagctcatgg aaccatccta catag 165

<210> 111

<211> 394

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 111

tataaagctg tttctggttg tatttaagtc ctaagctata gcttctttcc tcatgtaacc 60
ctgttcagac ttgttatata tatatatata tatatatata tatatatata tatatatata 120
tatatatata tatatatata tatatgggtt tgctaatgca ctcacaccat ttttttagta 180
tgagtacatt agcaatcaac accaaanatt ttaactaaaa aatcaatcac ctctcttatt 240
tttcaaaatt taatgtaggg ataccctaca tttgttccaa gctcgacaca tctgatctat 300
atgctcgagc ttgaggggga gtgttgaaat atgataagtt cccattggaa atgatctgtt 360
cctaattcta ctactgtttc aatgaaatta ctgc 394

<210> 112

<211> 330

<212> DNA

<213> Glycine max

<400> 112

tagctggtcc ttgtttgctt ctccacacac ctctctctct ctctctctca tgcactccat 60
atatcggatc ctagatacac aaacaaagaa agggctatac catatgaggg atatgaatga 120
aagaaagtct atagcgcagt gtcatttttt tggattagaa atatttcccc aagctgaacg 180
agaagcccgc catgccacgg ctgtagatat ccgttttaat atgaaaacat tcccgtgggg 240
ctttcataag aacaatgagc ccttcataat ctatgagaga aagcacaact catcgaagct 300
cgatcattac ctatactatc ttgtttatat 330

<210> 113

<211> 229

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 113

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ccccctcct tggtctctag cgcaagttac tcctttgaca agtactggga gctggagtaa 120
aatgatgaca tgccccttag ctggactgac agcgactaca gtctggacta tttttagtca 180

cgacncgacc tcttaaagga cctttatatg attgtaaatg cagggtagc

229

<210> 114
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 114

atgatataag actttgaggc caaactatat ccaatatcan aatgaggaat cttttaacaa 60
tttaactaag tccttatttg tgattttctt gatcttattt ggtgacttgg aacaatgtgt 120
gctttcatca cgtaaattct tttggcctca tcagaacctg cacgattcac atttatgtca 180
ctcctcctct aggttgtgag atcacaagga gggatttaaa ggcgtacacg tcgaataaag 240
ccttgatagg tcttagacca gcacctacag cctggaatat aaggattgac tcagtttaca 300
ttgacaatga cttcaccaac tacacagtgg aatatgatgt gtatgagaaa aggataacta 360
cggaataact tttgatctgc ctatatgctt atgatttgct tgtgact 407

<210> 115
<211> 378
<212> DNA
<213> Glycine max
<400> 115

agcttatacc agcccaatcc cccaaatttt ttaatccgag ctgggaattc tctcccgact 60
caagtaaaag gaccacctgc aacagaaaga gcgccggccc aacgcacggc tccagccgct 120
ccccggccag ttaataatac agcccccgac gcgacctata aatatgcaca gcacccgccc 180
ccgaaagata acttctcccc tattcccatg gcatactccg agttatggcc ttcattattg 240
gagaatcatt tggtggtggc catacccggy aaggtcttcc agccacccta cccaagtgg 300
tacgacccgg gtgccaaagt tgtgtaccat agtggagctc ccggacacaa tattgactcc 360
tgcaccccg tcaagtat 378

<210> 116
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 116

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aatttccctt ggttatttgg ctctccattg atgtgttttg gtgcttttagt tgctcatttt 120
tttgcaaaat tctggaagca attcgcactt gaatccatgc ttgttttggg gaattgaggg 180
tttgtgtgag aaggcattat gcctatgttg tattctgaag caatgggggca tgccacattg 240
tccccattct cttgcaattt gagtccgaac gtgcgcccc caagtgtctg gtgaagtgcc 300
ccaatgatat atgaatatga ttttgacaaa ttgggatggg gggactgttt tatatatgta 360
gagacagcat aagagattca aaatatgtgc ccgaatgcaa tttcaagctt atgaaccan 420
acctttttatc ttcaatgcaa gaagacatac tcatagc 457

<210> 117

<211> 305

<212> DNA

<213> Glycine max

<400> 117

agctttgata gtaagtttaa ttgaataaat tatactcact atcacaaaaa tgggtcttcta 60
cgacgcacgt tttacgacgg ttgtacaaaa accgatgtca taagtaaagt agtgacattt 120
ttgtaaataa cttaaaaatt ttaaagatgg ttcttatcaa accagtcttt gaaaaggaat 180
taccacatca gttcttctac aaccgacgta gaatgcgaag cttaaaaatg cgaacgggct 240
ctctctcact ctctattata tctcttttat aatctctctc ctctctaaaat ctagaaaacc 300
ctaat 305

<210> 118

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 118

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ttccacaagg gaagctcttg ctgcagaact tgcacatgtg tttcacttct tgatcttctt 120
ccattggatt gatttttcaa gatcacacac acgcacggat cagcaaagaa agcaaaatta 180
accacacttt cttgatcacc accaacacaa gagaaatcga tcacaaggga aaaacagcaa 240

caccccagat cagcatcaca tcttgaaagt ggttggagag aagaataata ccgagaagaa 300
gaagaagaga aaccccatgt ctgaaaattg caaggtggtg agtgcaagat ctaacgcaga 360
aaacaagagg aaaagaaaag ggacaagaga acgtgtagta gtagcacaaa ctattatata 420
tactata 427

<210> 119
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 119

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agtcaaggtc tgagagacca tacaagtttc ctaacgattt ctaattatgt gggccattaa 120
gtctatcata tgctgacaat agccgagaag cccatgaatc tcttcggggg cggagtaagt 180
gtctgccatc gccttggcct tggctaacaa gcgngaagt tcttgactcc cgttcaaggt 240
aagagcaaac cgatccatcc acatggttgc ctcttggtgt aaagagtcga tcacccttcc 300
tctagcctct ttttccgcgt atacttgagc atactcgtcc gcgattctat gctcgtgggc 360
cgtggctaga cctaactctt cttggtactt ggcc 394

<210> 120
<211> 335
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 120

agctntntat tttcagtaga tgaagatgaa ttcgtggcca cctcatggac tcctctaagg 60
acaataacat catttcttgc tctgaattgt tgggagttgg aagccatctt ctcaatcaaa 120
ttcctagcct caacaggggt catatcacca agagctctac cactggcagc atcaatcata 180
ctcctctcca tgttactaag tccctcatag aaatattgaa gaaagagttg ctcagaaatc 240
tgggtggtgag gacaacttgc acacaatttc ttgaatcttt cccagtactc atacaagctc 300
tctccactaa gttgcctgat gcctgaaatg tcttt 335

<210> 121
 <211> 439
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 121

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 actctcagcc acttatgata gccgtcgatg atcccattac tgcttcccct aagctctatg 120
 tcctttcttc atgccgcac ccatgccttg cgaactcctt ggagtaccct cacgttgtgg 180
 tcaccgaaac cccgtgcatg gaaaggcgtg atgctttcgt ctgatggcac tcctctcatg 240
 gggtagccaa gctgtcttat ggtgaggacg ggattataat taatacaacc ccttgttcca 300
 tcaagggaac atttggacat ccttcgcacg aagatagaat cctgattctt ccttccttct 360
 agcgagggaa caaattaata gacgcccctc catgctagcc aagagttggt cccaattcgc 420
 ctttcctttt tcgatgcac 439

<210> 122
 <211> 397
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 122

 agctttaagc caattcatac gacaataact ttntactcgg atgtctgatt gagtcccgtg 60
 atataacgaa acgctcgaaa ttgaatgttg aagctctaac cctattcaaa caacaataac 120
 gttttactcg gatgtctgaa tgagtctcgt aatatatcga cacgctcgaa attgaatggt 180
 gaagctctaa gcctattcaa acaacaataa cgttttactc ggatgtccga ttgagtgcg 240
 taatatatcg agacggtcga aattgaatgg tgaacctatg agccaattta aacgacaata 300
 actttttact cggatgtctg attgagtcgc gtatatatcg agacgctcaa aatgaatggt 360
 gacctctgag ccattcaaga caatactttt actcgat 397

<210> 123
 <211> 427
 <212> DNA
 <213> Glycine max

 <400> 123

gtgtgatgat tatttgtgaa gacatttgtt gaaagcttgt tgaaattgcc atgtttggat 240
gagttagaca taccattctt gtttaggggt ttttgtgatg atgcttgtga tgtttatatg 300
ctgaaattgc ccatggaaaa ctgctagaga tga 333

<210> 126
<211> 405
<212> DNA
<213> Glycine max
<400> 126

agcttcttag tttcagatga tccagatggg tttgtagcta cctcatgcac tcttctaata 60
actatggcat catttctggc gctaaactgc tgggagttgg aggccatctt ctcaattaaa 120
tttctggctt cagcaggagt catgtctcca agggctccac cactggcagc atctatcata 180
cttctctcca tattactgag tcttccataa aaatattgga gaagaagctg ttctgaaatc 240
tgatgggtggg ggcaactggc acatagtttc ttatatctct ccagttactc atacaggctc 300
tctccactga gttgtctaata acctgagata ttcttctctga tggctgtggg cctggaagca 360
gggaaatttt tttctaagaa tactctctta aggtcatccc agctc 405

<210> 127
<211> 388
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 127

agcttgctct atattttacat tgatgcttat gggaagaggt tgtatgcat ttttgtttta 60
agagtagtgt cccactggta aaactaactt tccaaatggt tgccttcgca ggaaatggcc 120
ccaaggaagc ttgcctcata gaggtctagg aaggacaagg cagccgaagg aactagttcc 180
gctccggagt atgacagtca ccgctttaag agcgccgtac accagcagcg ctctgaggcc 240
atcaagggat ggtcgtttct ccgggagcga cgcgctccagc tcaagacgtt aaagaagcgc 300
tactaggagg caacctagta ccttttaaat ttctgcctgc tatttgatca ctctttatag 360
tangaagcac ctaggtgctc atgaccc 388

<210> 128
<211> 458

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 128

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 agtattttatt acctatactt aacagaaaat acttataaca ttacaaaata accataaatt 120
 gggagagttt gatacaattt atacaagttt tatacacaaa agttagtcac tttcaccgac 180
 taacaactcc cccaaattta cagttttgct tgcctcaag caaaaagaga acaactcact 240
 agtgctcgag tgacaatgac atgcagtgcac tatgtacaaa ggtgtatgct acaaagtgac 300
 tgattgcatg ataagagaat ggagtaaaat gccctaatac cttgtctttc acaaggtatg 360
 cagttatcca aagagaagaa taaattgtac cctgaacaga tagatgaagt taggaataag 420
 acagatatca aggaagtag cttacaccat agtctcat 458

<210> 129
 <211> 347
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 129

 agctttacta ttatcttccg aacaatatat gaatgaaatg atgaacctta taattaaaca 60
 aagatactac tactactaag tttctattga tgcttgatc tgagtactaa aaagaaagcc 120
 tgttataatg attcaaaggc ataacaataa acaacttaac aataaaccat gaactacagc 180
 agctggnggt actttaataa atctctttgt attttaaaat agtctctaaa attntatgta 240
 aaaaagataa ctttacttat atttactaac taatgatata aaactaattt gctaacgatt 300
 taaactaaaa caaaaatgag ggaccttaac aaatctcttt gatttat 347

<210> 130
 <211> 398
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 130

 ntaacctcat cgtctctcac agtctttaga tttgggagcc aattcaatcc ttgtgttcgg 60

-²² -²¹ -²⁰ -¹⁹ -¹⁸ -¹⁷ -¹⁶ -¹⁵ -¹⁴ -¹³ -¹² -¹¹ -¹⁰ -⁹ -⁸ -⁷ -⁶ -⁵ -⁴ -³ -² -¹

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<223>      unsure at all n locations
<400>      131
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agcttgatatg ggtgagttat aaattataat acctcagctt ggttcaaaag atcatgttta	60
ctccgctgca cgttgagcaa gttttgcaca gcttgcccct ctatggacat cctcaccgga	120
ctagctotta ctctggcctg aactcgaacc aatgcctgca tgcaccttaa tgtecnegct	180
gtctgcttcc tcacctgtct cccccgaac aagtgcctga atcctcacca ctggcttcaa	240
tgccctcaaa gcccttcttg cctgcaatca ccacacaagt gatgtcgaaa tataatgttg	300
gtctaattggt aa	312

<210>	132
<211>	414
<212>	DNA
<213>	Glycine max

<400> 132

tggtcatgtg	agagctcaac	actaagttgc	tgatgtcttc	acaaagccct	taatgcttct	60
aactctctct	tcctttatcc	acaagttggg	actcattaac	atttactctc	caacttgagg	120
gggtattaaa	gttgtagtaa	gaaatggagt	tagttacttc	agatagaggg	tagatagact	180
agttggtaat	taggtagaat	gaagttagat	actaagtttg	ttaagctgga	tataaaatag	240
tgtgtatgca	accttatatt	caataatcat	caataatatt	ctacagattt	ccttgttgca	300
caaagctctc	tatcaataaa	ttcccctttg	ccaagtccac	attgaagaat	ttagagcaat	360
tgtagaatgt	cgaagaacat	attatgtaca	tacaagacac	aacttataaa	tctc	414

<210> 133
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 133

agcttgctct aaatttacat tgatgtttgt atttatggga ggaggttgta tgccattttt 60
 gttttaagag tagtgtccca ctggtaaaac taactttcca aatgtttgcc ttcgcaggaa 120
 atggccccga ggaagcttgc ctcanagagg tccaggaagg acaagacagc cgaaggaact 180
 agttccgctc cggagtatga cagtcaccgc tttaggagcg ctgtacacca gcagcgcttc 240
 gaggccatca agggatggtc gtttctccgg gagcgacgcg tccagctcag ggacgacgag 300
 tatactgatt tccaggagga aataaggcgc cgacgggtggg catcactggt tactcccatg 360
 gccaaagttg atccagaaat agtccttgag ttttatg 397

<210> 134
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 134

ctgatagcag atgatatgat ccttactagg agtggatcgc ttgatacagg tcatagagtt 60
 tggatgatgc tacttccaga gagggaagat aagtcaggat agacaccaca agaattgcct 120
 tgataagtct gagattgggt caacatgaga cccagagaga agctctctcc aaagtttata 180
 aaaggccaaa agtacttata ttgaaaatga aacccatata tatagcgtat ctgaatgaaa 240
 aaaatataaa tagaccaggg ccttcanata agttagggcc aaaattacga caataaaatt 300
 ataaataaca aatagaacat attttgcag ggcccttcaa ttagtttggg ctttcaacaa 360
 caattaatat tcttagtagt gcctctggct ttggaccttc atccttctcc acttgagccg 420
 tggtaagtat gtctgttacc aatttgtgga 450

<210> 135
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 135

agcttcttga tatactgcag cagcattata ttaatgcttc atagtatttt ttgacatata 60
 tattaatatt gtcaagctaa aggcacaatt tttgttatgc taattgataa caatgataga 120
 aatgatctta gatacaccaa gctgccttgg atatgatggt tgattcgatg atgattgggt 180
 agtcagagta aatgttagtt tagagaggaa gaattaacta agttaattat attaaagatt 240
 aataatttga aatgagacta ttaaaacata tagataataa attgtcataa tgaaaagttt 300
 acgatctggt tggaatatga taaaatagga taagatatat cattatgata aacttttaggt 360
 ttattttaata tttgatgcac actanataat atta 394

<210> 136
 <211> 440
 <212> DNA
 <213> Glycine max

<400> 136
 ctataaggac atgcatccag tcaacacacc gctgccaatt cccttatgaa taccctgaat 60
 cataaataag ttcttcaaac aatagtttaa gttatgactg aagtttcata tacgcaaagg 120
 caaataataa taatagtaat tgagctaagt tttttggaaa gtagttcaaa tttaaaataa 180
 aaaatattaa atccatatta aattcgtaaa tttgaaacat tgtaattgta cttcaagtga 240
 cgattttttt ttttttttgc agcagggtcaa atcaaggctg gtatctttat tttgagccaa 300
 aatttcttaa gcagcgtttc acccgcaaat tatgcaacgg cgaacaaaaa ctttagaact 360
 gaaaatcttg cattccaagg aaccatttag ccattggcct caagacaaga actacgtatt 420
 gtggctgggt tgatccctac 440

<210> 137
 <211> 340
 <212> DNA
 <213> Glycine max

<400> 137
 agctttcagc tatgtatctc attagtaata ctttttcgtg ctgttggatg ggcaacaatt 60
 gcctccttgg tgggtatagt aatcactgtg ctttgcaata ctccactcgc aaagttacag 120

cacaagtttc aaagcaaact tatggtgaca caagatgata gattgaaggc ttgttctgag 180
 gctcttgtga atatgaaggt gttgaagttg tatgctggg aaaccaattt tagaagttct 240
 atagagagat taaggaatga ggagctcaaa tggttgtctg cagtgaatt aagaaaggca 300
 tacaacacct ttctcttttg gcctctctg agttggctct 340

<210> 138
 <211> 453
 <212> DNA
 <213> Glycine max

<400> 138

ctgcttgatg agaaagaggc acagttacgc caatttataa ggtaagcacg tgttggttta 60
 ttcagtgggt tagcatcttt tggacatgct tgggtgtctg attaatttg attgaagtat 120
 ggaagggggg agtactgggt catcgagcaa tttgcgtgaa gaaactgctc gtgtgtcgaa 180
 agattcttca gagctttttc caactggcat tccacaagta ggtcaaacag agattagcca 240
 agattcattt gcgggtggac tggggaatat tcgttcggag ttgattggct ccacatctgg 300
 caatgattct actacttttc tatcgaatga ccgatgaga aatggcagag ctgacaatgc 360
 cactctaaaa ggtcatgaca gctccattag aggcagacag agatatactt cattgctgct 420
 caccctcctt gtcaagcgat gttaattaat tgc 453

<210> 139
 <211> 304
 <212> DNA
 <213> Glycine max

<400> 139

agcttgctct aaatttacat tgatgcttgt atttgtggga ggaggttata tgccattttt 60
 gttttaagag taatgtccca ctggtaaaac taactttcca aatgtttgcc ttgcaggaa 120
 tggccccgag gaagcttgcc tcaaagaggt ccaggaagga caaggcggcc gaaagaacta 180
 gttccgctcc ggagtaacgac agtcaccgct ttatgagcgc tgtacaccag cagcgcttcg 240
 aagccatcaa gggatggctg tttctccggg agcgacgcgt ccagctcagg gacgacgagt 300
 atac 304

<210> 140

<211> 376
 <212> DNA
 <213> Glycine max

<400> 140

ctgaatgctc tattcaatgg agttgacaag aataccttca gactgatcaa cacttgcaca 60
 gtggccaaag atgcgtggga gatcctgaaa accactcatg aaggaacctc caaagtgaag 120
 atgtccagat tgcaactatt ggccacaaaa ttcgaaaatc tgaagatgaa ggaggaagaa 180
 tgtattcatg acttccacat gaacattctt gaaattgccat atgcttgcac tgccttggga 240
 gagagaatga cagatgaaaa gctggtgaga aagatcctca catccttgcc taagagattt 300
 gacatgaaag tcaactgcaat agaggaggcc caagacattt gcaacatgag agtagatgaa 360
 ctcatgggtt cccttc 376

<210> 141
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 141

agcttgctgt agtataatag gaagcaccaa tataaatatc ttgatgccta ctattgatat 60
 atagcattga acatacatta aactagctag agagaataaa aattgctgat aatagtacac 120
 tccataggta gtcattgatgc gtaaaccact actgcaagaa aacactttat attatagtat 180
 tagctagcaa tttttgtggt tggcttgatc atgcttggcc tcacatgact gacaggtggc 240
 gaatccatct gcctatatag acccttcnc ataacttcct ttnttactac ttcttaagaa 300
 aatttcta ataggaaacagt agaagaacat taccatgaga cttccatggc tgagaatgaa 360
 cggtcagtta aagagacgta ttgtgtaaat gtgttaaaat ga 402

<210> 142
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 142

tgtaataacc ttagatagaa atgagagatt atgttcttga gttgaatccc tcatgtgagg 60
 tgaaaatctt tagcatgtgt cgtaaaacca tagatatattt ttttatgtaa agtccaatag 120

tgactagcaa aggtgaaatc cagtgggtgca cctgggtctag tagaagattg aagtctagta 180
 aggaattgac aaggtttgtga aacccaatgg ttgctggacc agttgcgaat tggttgtggt 240
 actgaaataa catctttaac ggtgaggatt ggacgcaccc caaggggtgtg gtgaaccatt 300
 atatagacct ttgtgcactt tcttctctgt ctctatatatt tgctcttgca caaatctaac 360
 actacttttg tataaaatac tacaatttgt t 391

<210> 143
 <211> 378
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 143

ntggacaacc atatataaga agtactttca gattagtcac agttgacagc cactccggaa 60
 gcatttcaag attgtcgcag tctgaaataa tcaaggtccg taaggagttg gcagtttctt 120
 gaagccattg aggtaaggcc accagctgtg gtaagcccca gaatgcaaca tattttaacc 180
 ttaacttgag gttatgctct tcatggcggt ccttccacag atctaagtcc agactaacac 240
 agtctttaac agacagagat tctaattcag gaaaatttat aacatcctct gaccttgact 300
 tcagactatg acaggcagca acattcaatg ctttaagagc aggggaacttc acccctgcaa 360
 agatagactc catattat 378

<210> 144
 <211> 369
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 144

agctttacac aaagaacata gtataggtta aataaatata gctgaagatt taaatcacat 60
 agaaaacacc tttaatttct agtaaacata gctaattctc ccaactgctg ctcgctctgc 120
 aattctattg caatactcta catggaaaaa tgaggatatat tatttgtgat ataaaatgac 180
 aatcaaact aatgaagaga aacgaagaan attagatacc cgagttaaca actttcacia 240
 attaaacaat atctncttgt agacatatta catgagcata cctttgctac atctagnttt 300
 ccaagctgta ttgctagatc anatatgtag tcagggtcaa tagctacttc aagagcatct 360

tctatcata

369

<210> 145
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 145

tgtccacaaa nataggttnt tgaagtttgt catttcaatt tctcactaag taaaatggat 60
cattttcaag gtccaatgcc ttanaatgat cacctcttaa agtaaaaaag aatcacttga 120
taagaaagaa ctacgtaggt cttatttcct catcgcaatt gaggaatacg taggagcaaa 180
gggaaacacc cttgtcgact acaaaaagag aaaaatataa aaaggggtgta aaggatataa 240
ggacttaaaa gggaacataa aaaatcaagg tcatgtttgc acattcgatt aaagcctgcc 300
gtcccttggg acggacgtgt ggngtgctaa taccttcccc gtgcgtaaac acaactcccg 360
aacctttcac ttannagttc gtagatcgcg tcttttc 397

<210> 146
<211> 416
<212> DNA
<213> Glycine max

<400> 146

agcttcaata cgagtagcca ccatttcact agatagtttc ctaaccagtc aaaccattcc 60
caaaatcatt ctgcagaata ataaatgcaa aatagagttg gctaaacaaa aaagatcctc 120
ataatcattt cccaattggg tcttggattc ccatagcact atacaaatca ataatttttt 180
aacagaaagt atactcaa atgaaacctag caattttctc aggttaaaaa aactacacct 240
cctagcaatg gagaggattg ctctacatc aaatgcttca gctggatcgg cctggattgc 300
acgtagctct tcattggttt cagagcaac cttatacata agccagaaat tatttctaaa 360
gcattgcttt ccatcacagg caacaacaaa attaaacatt atacaaaacc gagaat 416

<210> 147
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 147

ntganagagt tatcttttga caacttctaa ctctttttcc tgtaattntt aacacgtgtg 60
 cccttacttt agtgtaagac ccattaaaaa ctatttcaca aaaattgcat ctaacttcaa 120
 aatttccacc gcttccactt agacctttta gctttgaaac acaattccat aaagggttgg 180
 tgtcatcacc ttgttcttta acttgattag aagtactcat ctctacaatt aatcaatata 240
 ataaaataat aaataagaac acaatggcca atttaaaata aaaaaattat gaatgggttaa 300
 ctgttatatt taaaaactat tatcaaaata ggatataaaa ttaaaaatca taaagtatta 360
 aatgtattag taggtaagaa agtaaagaan aataatatta aactaaaaat tcttatgagc 420
 ctacgaaaga agaanaaaaa attataaaaa ttggaaa 457

<210> 148
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 148

agcttcatgc ttaactatgt atggaaaaac ttcattactg ttgttcaaga catacaagtg 60
 agcttgtaac aaatcttcta cacttggagt gatcacctgc agtcctcttg aacccttacc 120
 acccactctg tcatcatgcc gacactcagg aagcccaaca gctttagcct tctctaagta 180
 ttctgaacaa aattcaatgg cttcttctgc aatgtacctc tcaacaatag atgcttccgg 240
 acgatataga ttctttgtat acccttttaa gatcttcatt tatcgctcaa cggggtacat 300
 ccaccgtaga taaacaggac cacagcattt gatttctctg accagatgca caatcaagtg 360
 aatcatgatg tcaaagaaag cangggaaaa tacatc 396

<210> 149
 <211> 462
 <212> DNA
 <213> Glycine max

<400> 149

tcaccaccaa gacagtgtct tggataagaa gcttagagag gatgcttcaa tagaggaaga 60
 gaatgagaga gaaagagga agggcggtgg aattgatgaa ggagattagg gagagaagtt 120

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<210>      150
<211>      406
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      150
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<210>	151
<211>	440
<212>	DNA
<213>	Glycine max
<223>	unsure at all n locations
<400>	151

63

ttcaatatga atatgcta gcaacaacga ctgctccaa cgtccaacc cttctgcca 360
ccaccagcta cttctccac actcacaact tctaaaanaa ttgtgctgtg cctcgacctt 420
caccacctta gtcaccacca 440

<210> 152
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 152

agcttgctact cttgttgagg gaacccttac tcaagctatc ctaaaatgaa tacaacaaac 60
cataaaaatt tcatcacact catagcaaat cagaaataaa tggcgtgaat ggtttatcat 120
tacagttaca acaaatcaaa cacaagtggg gcacaaatca aacatgaatg gtgcgaatgg 180
tttttctttg caactactat ccacanagt agatagaggt tagggattaa acaaatcana 240
gcacacaagt aataatgtta tttgtagtgt gagaaaataa caattgaaga atgctaaggc 300
gcgaanaaaa ttcaattaca cttctccann aaatgagata aagcttcaag attaagaaaa 360
tacaagtgn aatttataaa gtataatggg atctg 395

<210> 153
<211> 376
<212> DNA
<213> Glycine max

<400> 153

atagcttgct cattgactct cgattgctac acagaatgac caagatcttt acggtgatct 60
gcagaagagc atagaccaca gactcttgcg acatgtgtag atttcttatt catgggaaga 120
cgatgtacta cggtgaccaa cggatgaagg tctccttcag gctttttatt ttcacttgac 180
gaggaggaat gtgcggccac ctgatggact cctctaagaa caatagcata atttcttgca 240
ctgaattggt gagagttgga agccatcttc tcaatcaa tcttagcttc agcaggggtc 300
atatcaccaa gggcttcacc actggcagca tcaatcatac tctctccat gttgctaagg 360
tctcataga aatatt 376

<210> 154
<211> 264

<212> DNA
 <213> Glycine max

 <400> 154

 agcttagaag aattaaaaat gaaaaaaaaa actataataa ctaaaattgg aaagacgtcc 60
 acttataagg actaaaatta gaaaaataaa cttatagaga ttaaaaatta aaaaaaatgc 120
 taacttacag ggacaaatac atattttaagc ttaaaaataa cattattcta aaattaaaat 180
 ttgggctcct agttagcatc aaaacagtcc atttattaca attaagatca agccagagat 240
 acttaaataa aataaataaa aaat 264

<210> 155
 <211> 314
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 155

 tgttacaaat gtggtaaacc ttatagaaac taaaggctgn tcgagtcgtg tggttgtgcc 60
 ggataaacat ggctttgcag cagccaacaa aggctcgcaa tgacgatgga gaccagtgtg 120
 atgctcgtg gagatgcgtc acgcgatgtg tgcgtgaacc tcacacgcca aggccttgca 180
 tggggttgcg tgcggcggtg ttatgagttg gctgcgca tggagtcgtg gacgatgtgg 240
 tggcctttgg cgatgatgat gggcattgtt tacctgtgaa aataaaaagt ggcaaggctc 300
 accacggacg cctt 314

<210> 156
 <211> 403
 <212> DNA
 <213> Glycine max

 <400> 156

 agcttaacaa tccttttgat ctatttcaaa atatttctat ccctatcata taacttgcct 60
 cactcatatc cttcatttta aagttacaag agagaaactt tttcgttgag catttttcta 120
 aattggaaat tgtgatgttg agcatttttc catcttaaat ctctctagta ctttattgat 180
 atatgctttt tgagacaagc ttaacaatcc tatgatctat ttcagaatat ttctatccct 240
 atcacaaaac ttgcctcacc catatccttc atttcaaagt tattagagag aaacttctta 300

gtctcatgaa gaagatcaag atcattagtt gcaagcaata tatcatcaat atacaggatt 360
 agaaaaataa ccttactcct actgaccttc agatatatac att 403

<210> 157
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 157

gtatcccaag ctggacttat atacagtatt ctttgggtcta ccatatacta tggctctaac 60
 ctatcgacga acttattgga agaatccctc cggactagca tatatgatcg tcttaccac 120
 caacttctct ctaagctcta ttagtcgtta ctctcttgat ttacgggatg ttgtgagcgc 180
 cttgttcttt gacttgagta gaagtactca tctctacaat taatcgatat aataaaatac 240
 tcaataagaa cacgatgggc aattttaaata aaaaaaatta tgaatgggta actgttatat 300
 ttaacaacta ttatcaacat aggatataag attatgagtc ataaagtatt agatgtaata 360
 gtgggtaaga aagtaaagaa tgataatatt aaactaaaaa ttcttatgag cctacgatag 420
 aagaangaaa attataaaaaa tcggaaagta 450

<210> 158
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 158

agcttccaag aatcaagatc aagattcaag actcaagatt caagaatcaa gagaagactt 60
 aatcaagata agtatgaaaa gggttttttaa aaaattgagt agcacatgga tttttctcac 120
 aacatgttta tcaaagagtt ttactctct ggtaatcgat tactagattg ttctaatega 180
 ttaccagtag caaaatgttt ttgaaaaagt tttcaactga atttacaacg ttccaattga 240
 tttcaaaaag ctcttatatg ttttggtaat cgattaccac tgtctttgaa cgttgaaatt 300
 caaattcaaa tgtgaagagt cacatccttt cgcataaag ctttgtgtaa ttgattacac 360
 tgatttggtta atcgattacc agtgattggt tctgaataaa t 401

<210> 159

<211> 387
 <212> DNA
 <213> Glycine max

<400> 159

tcttatccaa ggctcatctt ggaggcgaag ctacttcttc catggcttat tccctaattgg 60
 aaggcgcccta ctctcagctc ttctactttg tcttccgctg catctacatg gtggaaaatc 120
 actattaaag gacctcattg aagctcacag atccaacctg catagagacc ccacaggcaa 180
 gcttccatca taaccactct atttgccta ccagggatat ccaacttgga cactgcactc 240
 gccaagtaca tacacgacat acatcattac aatgacacta tcaacatcca cagcatctaa 300
 gtctgatgac actatgatca tctacctgat cccgtctcga tgtcattctc aacatcaaca 360
 gtatctgata tcaatgacat aatcaac 387

<210> 160
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 160

agctttccat gaatcaacaa aatgaataga taactcacia cactattggc atccctgcct 60
 ccacaaagca gaagaagtcc atcagagcgt gcacttgcag ttgcatacct agtcaaagat 120
 taaatggtaa aatgaaaatc gcaccatgac aagttgcacc aaatgatagc caactaatat 180
 atttaaggta agtctacact tcacagaatc gattgtttac atcttctaata gtaagatatt 240
 taaagtattc tcttgtgctt acaaaaaaca aaaagcaata atgtggtaac tttgttccac 300
 aaacagtaat attaatgcta atcaaatgg ccaataaga tgagattcaa ttcanaccct 360
 actcaagctg cagtctaact caagttntcg tacagaanat canaagaaaa t 411

<210> 161
 <211> 442
 <212> DNA
 <213> Glycine max

<400> 161

tgtagactga atctatacca taaaaaagat ttgtgttcag tacaccgctt atcataattt 60
 tttttttctc tagccattat ttttagggag gtagtttagc taactcacgg attttaattc 120

tttacttgca tgatgattca tttttccttt ctatacacat tgtttttttt gaatgatttt 180
 tacatatgta ttgaatcaaa catttcagaa ttatcattta tattaacgct atttatccgc 240
 atagtttaat tggccatcgt caaacttaaa tatacggcag atatatatta taactttttg 300
 tataatacat gatttttaac aaaatcttta tttacatttt cttatgataa gggattagaa 360
 cttttttttt gtggacaaga gatacaagtc tctcattcct ggaacatata taaagctgaa 420
 tgaatatgaa atgccctccc gc 442

<210> 162
 <211> 324
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 162

tcaagcttca agttagaagt tgaacacttt tatgttagaa gtgtcaaag aggaaatctg 60
 aagcgttggtg ttttctatgg ggaactacaa ggcgctagga gtagatgggt tccaatctat 120
 tctctataag agcaaataag atgttggtgg tgaaaccttt tgtactctta ttagaagtat 180
 nttttataat ccactaaca ttgatgattt taattatact cttattgctc ttaattccaa 240
 gcaagatgtg ctactaaca tgaagcactt taagcgcata atgttggtgca atgggttcta 300
 cagacaatga caagaatatg tctg 324

<210> 163
 <211> 379
 <212> DNA
 <213> Glycine max
 <400> 163

ctaaacgatg ggctagctta agctagccag gcaactttca tgttcttcat tagagaaact 60
 agctcagaag tgtgtcccta atgatctagc ttaagctagc ttggccactt gcaaattgtg 120
 tacactgttc tttcaatgat agcttttaa atctcttcaa agagatcctt actgtagttc 180
 ctacaaagag actgaacgac ataaaccacc tcacagctag tacactaggc tcttaaaata 240
 tttctctaaa gctgagttta ttcaaagatc aaccaattg tgctcaaaca atgttcagaa 300
 gcatgagaaa catatcatag ttgtcacaaa aatcgcaaaa aacaagtaaa agaggtaatt 360

ataattgata tctaactct

379

<210> 164
<211> 173
<212> DNA
<213> Glycine max

<400> 164

tgtttctata ctttatacaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60

catatattaa gaaggggggg gggggtccca tcttagacac ccgcttcatt ctctctcat 120

ccttatccaa aagtatttat tctattctac gcctcccata tattgatctt ccc 173

<210> 165
<211> 377
<212> DNA
<213> Glycine max

<400> 165

tgaaggatgt aagattctgt gattcttcaa tgtccaccac aatgtgatca aactttgatg 60

tcagtgttct gagcaccttc tcaatcacca gttgttcctt aatttgttct ccacagcact 120

tcattctaatt ggtgagtgtg agaattctgg tgaaatactc agctactgat tcagtctcct 180

ccattgcaag aagctcatac tgtcttctca atgtctgaag ctttaccttc tttatctttt 240

ctccaaagat aatccaatat ttatttagat caagatatct aaatatatat tttagtaaag 300

taaaagatag atacaattgc tttaatatat tatattgtta ttcttattct cgaaagatgt 360

tattatcata atatatt 377

<210> 166
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 166

tgttcctana tgatgggcta gcttaagcta gcctggaac ttttaagttc ttcattagaa 60

tagctagctt aaaagtctgc ccctaattgat ctagcttaag ctagcttggt aacttccaaa 120

ttctttacac ttttctttca atgatagctn taaatatctc ttcaaagaga tccttaatgt 180

aattcctaca aagagactaa acaacaaaaa ccacaaaaaa gcaataaaac taagttctta 240

aaatatttct ctaaagctga gtttattcaa ggatcaacca aattgtgctc aaacaaggtt 300
 cagaagcatg agaaacatat aatagttgca aaaaaaattg caaaaaacaa gtaaaagtgg 360
 taattataat tgattattta actctagtaa aaaaaaaaag cattgatcgt ctaaccttat 420
 tttatcaatg gttaaatact taattcaat 449

<210> 167
 <211> 331
 <212> DNA
 <213> Glycine max

<400> 167

agcttgggtct tgattttttt ctaagttctt taacaagatt agaacaatat acttgtcctt 60
 catttaactg tctttgggct tggcggccac gatcaacaaa gtactttcga cacctactat 120
 atgttgattt gaccaacact gttatcggtg tggtgcgaca atccttcaaa accttattta 180
 tacattttga gaggttgggt gtcatgtggc catatcgacg tccttctcta tcataagcca 240
 tcgtccaatt ttcctttgaa atacgatcaa tccatgttgc tatggctgga ctgagttgaa 300
 cggaattttc taaattttga ttaaaaaaaaa t 331

<210> 168
 <211> 449
 <212> DNA
 <213> Glycine max

<400> 168

tgtgaagtgc cacgttagag aacagaacac tcttttcttc tctctgtttg aacaggctct 60
 tcttcacgag aaattattac tctctctact ttatcattag ctcttatttc agtgtttgac 120
 tttttgcggt gttgcttcgt tgagtgtgca ctcggttctg tttggcgtct ggacaaaaaa 180
 catgggggaa gaagaagaag aagaagtgag cgtcaccgct ttgcatcatc caaacagcgg 240
 aaacgatgat cagagcctcg aattcgatat atatcctttg agcagttact attttggatc 300
 caaagatgct gttccctcca gagacctcac cttagatgat cgtgtttctca ggatgaagta 360
 caagctcggg ttctttcttc tctctctgc ttatttctac tgcaatataa acactctctt 420
 tgttctcttc tttaactatt ctttctttc 449

<210> 169
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 169

agcttgtgct attcatcttt ntcattctct tctcccttgc ccaacctgaa ttcttttgtg 60
 tctcccttct ccctttccaa gagaattcaa aggaccccgct ctgagaattc ttttgattct 120
 ttcctttccc ttaaacaataa gatttcaaag gactaactgc ctgagatata ttttgtttcc 180
 ccttacaag attcaaagga ctaaccgcct gagaattctt tgtcttaaca cattggaggg 240
 tacatccttt gtggtacaag tagaggatac gtctacttgg gttgttgaac taagaataag 300
 agaggggtaca tctcttgtgg atcagttcaa gtggagggtg catccacttg gttgttcaaa 360
 gagaacaagg gaaggtacat cccttgtgga tctt 394

<210> 170
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 170

tgtgctttaa gccacttaa caaaaaactg tttttataaa gtaaaaaagc cacactcttg 60
 acaagttcta catatgttgg caataaggct caacatatag ctctctcatt tacagtaaac 120
 aaaactttaa aatttggttt aggcctcact cacccttggg ttggatcaat tgcaccatat 180
 aaatatgtgt tccccgtgga ctaacaaatt ttatttggtt tttatcgttg catttagacc 240
 tttgcatgat ggcgactttg atgtcataca cattacttgc gctctttttt ccttacacat 300
 ttgttgcatt tcttcaatct aatttggtga atctgggaat cagggttgtaa gttatgattt 360
 caaggaaaac agatttgctc atctacaccg atctgcgac agctntccag aatcaagggt 420
 cttctatgcc ggcactcctg ctacatcaaa tgcanaagca gct 463

<210> 171
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 171

agcttgcttg tgggtgcttct atggaggctg gatctttgag cttcaatgag gtcctttaat 60
ggtgattttc tatcatggag atgcagcaaa agacaaagga gaaaagggtga gaagaggcgc 120
catccaatag gtaataagcc gtggaagaag gagcttcacc accaagatga gccttggata 180
agaagcttgg aaggatgctt caatggagga aaagaaagag ggagtgaaag agagatgggg 240
gagcacgaaa ttgaaggaat aaaagaggga gagaagttga actttgagtt gtgtctcaca 300
agactctcat tcatcanagt tacaataagt gttacacatg tttctattta tagactangt 360
agcttccttg agaagctctc ttgagaaaac ttccttgaga agtttctatg agaaaac 417

<210> 172

<211> 461

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 172

tganatgagg aagtgtggaa ggggtgagact tcctactttt attcgttggc cacagagtgg 60
tacctggaga tatgtcgcg nggtcaggag accttgggga cgtcagggtgg ggtgctattg 120
cccaaaacca agcttgacca atcccgaccc aaccgggca tagtcagtca gtgagaacct 180
gtgatgtacc taaacaggcg agctcctgga agtcaatcga taaaagaaca aagaccacaa 240
agcaaggagg cttgtgtggt ggctggccag ctgtgaatct tgagtgatat atgggatagg 300
gcctctggtg atcgattacc gaggggtgggt agtcgattac aaggcttana agtgaagaca 360
ggaagctaag atggcctctg gtaatcaatt accaagagag tgtaatcgat ttccaggctt 420
annaacgaga tcaggaagct aagagggctt ctggtaatcg a 461

<210> 173

<211> 260

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 173

tttcttctat gattcattct atgcacccat atatcgtgct gttggatgga caacaattgc 60
attctcggtg gggatactaa tcaactgcgt ttgcaatact ctcaactccat agtaacaaca 120

agcaagaaat gaagagccaa tgggtgatac atggacggag atgaaaaaga tcatgaggaa 120
 gcggtatggt cccgctagtt actcaaggga cttgaaattc aagctccaaa aactaaccca 180
 aggcaacaag ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240
 tattgaagaa gatgaggagg taactatggc tgcatttctt aatggtttga ctaatgatat 300
 ccgcgatatt gttgagctgc aggagtttgt tgaaatggat gatttgcttc acaaagcaat 360
 ccaagtggag caacaattaa a 381

<210> 177
 <211> 276
 <212> DNA
 <213> Glycine max

<400> 177

agcttattgg ttaaaaaggc gttatttgaa tcaacttagat aaaggtggaa gttataactt 60
 cctccattat taattaatct tctttcaccc actctctcca tatataaacc caccctcaat 120
 gctttcaaaa agtttaaaaa ataattataa gaaaaatggc aacatgtaaa cttccaccta 180
 cctaagttca gacaaaaaac acccacacac acaaagaagt taaggaacaa attggaacca 240
 taagcattct ctcttagtgg agaaggagaa aataat 276

<210> 178
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 178

tannagttga aaataatata aaagtcctaa tacaggtcca gcatgattcc actcactagt 60
 acaaaaactca cctactaaaa tgtgtgctaa ccagtgtatc atacagtggc ctccattcaa 120
 tagttagtga aatcttttta ctatatttgt tgagtagtct aactaataaa tttccccatc 180
 taacctaata aacaaaaaat ggcaaatca ttttaagagca agcagagaca tatagagaac 240
 aagaaaactc agcatctcat ctaagacaaa atgcagcagc acctaagcat aatgcttatt 300
 acgggacaca tgagatatct caaggccctt ctgaataagg ttgtgaacat cctccanagc 360
 tacatcactt ttttccttta tgaaattgca caacacacat aaaaagttag atttcaaccc 420

aacaaccaac tccatctgga tacaagccat gagtgaaaa

459

<210> 179
<211> 330
<212> DNA
<213> Glycine max

<400> 179

agcttgtaat cgattaaact gatatgagac atttgtctgc aagcttcaaa cacttggtgta 60
actggttact atcagtctgt aatcgattaa aacagaagag atgtaactat agaggaaatc 120
ttctaacttt agaacttttc ttctaactcc aacatgatga tgcattgatac acatatgaaa 180
tgatagagac aaagatgcaa cacacagtac aataatcaat acaaattgtca ttcaagagag 240
ttgggcatgt agaagacaat aagatcaagc ttttctttta gctgtaatgc taagtataca 300
tggtgcttcc cctatctcta acatgcaata 330

<210> 180
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 180

taatcttaca aagctctntg aaagaagggtt ttctatgtat tgattccttc aagtatccat 60
cttgagatac ttttcttgaa gaggaggaat atgcaattgg agtgtatgga gaaaggggaac 120
tagtgctcaa gcaatttccc atcagactca ttattgctcc taacccaaac agcctgatat 180
ttaagtatag gccaaactgca atgaagggtt atccccttgg tcccaccatt tttgtctttg 240
tgggataccc taacggaact aaggatgact atttctacaa cacatatgag gaaaaagtat 300
ctatcactaa gattggagtg ttccttgaga agcaatacat ctcccatgga gccaatggag 360
gaatgtagat cttggagaaa tccaagtggc acataacatt gatccaccta caatggaaca 420
agaattgatg ccacaaaagc attgtagatc catcttt 457

<210> 181
<211> 368
<212> DNA
<213> Glycine max

<400> 181

agctgtggaa agtgttgttg tcaccttctc gctaagccac tctgatggct tatcgagcgt 60
 ctgctatatg caacattcct gggctaagcg caaggaagaa tccataagaa gatgagctgt 120
 acaagtgcgc taagtgcacg cgcttcatct tactaagcgc accacttgag ttcactctgct 180
 aagcgagaaa agcgggctaa gccaaaaatc actaacgtgc gctaagcggc ccataagtgc 240
 gctaagcaca cgagcacaaa caaggccgcc tagttaagcc tgaaatcaga tcttgtgaaa 300
 ggagtatgga ctaagattca gagctctgca tgcctagggt ttctagagag agaaagtgca 360
 agttctag 368

<210> 182
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 182
 gctattacgg acctataata ctcagctggt tatccgtttt tgtgcaagac atatttaaac 60
 cgatcaattg tcatttaagg cgttggacca ttaacgatct cttgggtttt taaaagtagt 120
 ggtaaaggta gacgtttatt gtatgtttcc gaaggtgcat attaaccaat aaaagcagag 180
 agaacctttt aaggcattgg accttaaaac gggttttagt gacttttgcg gacaaaagct 240
 tcatttgaga gttgatttta gccttaagtt cactttgggt attagtcaat tcattcaagg 300
 aaacttgcaa agaaaaatgc ccgactgagg ttttttcttt ttgagattgt attcaaagat 360
 attgcgatta ttttatt 377

<210> 183
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 183
 agcttagaat ggccgaaagg gacgagtcaa ggggtgtaag catggcatta aaggataaat 60
 tgaaggcttg tcataggtca aagagaagtt tgaccgaaca atcgagtgga acggaagaga 120
 atatgttgac gatcattgat cagtataagg agaaggtaaa cctagctgct agtcttaggc 180
 agagactaga ggatgatcat gcgaaggat tgactctaca aatggaaagg gaagcaagag 240
 agaggggtgat agaatcatta cgctgggaag ctgtgaaatg gatggataga ttcgctctca 300

ctctgaatgg gagtcaagaa gcttcagggt attagccaga accaggcaat gacggaagta 360
tact 364

<210> 184
<211> 439
<212> DNA
<213> Glycine max

<400> 184

gtctccacta agttgcctaa tgcttgaat gtcttttctg atggcagagg tcctagatgc 60
agggaagaat ttctccaaga acaccctctt aaggatcatcc cagttgaaaa tggacctggg 120
agcaaggtag tatagccaat cttttgccac tccctccaga gaatgaggaa aagccttttag 180
aaagatatga tcttcttgaa catcacgggg cttcatgggt taacaaacaa tatggaaactc 240
cttaagatgc ttataaggat cttcacctgc aagaccatga aacttgtgca gcaaagtgtat 300
tagtccagcc ttgagaacat aaggaacacc ttcattcagga tattgaatgc acaagctttc 360
ataagtgaat tcaggtgcag ccattctcct aagagtcctc tcacgaagtg gaggttagagc 420
catgtttctca gtatgaaaa 439

<210> 185
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 185

agcttggaga ggatgcttca atggaggaaa agaaagaggg agagaaagag ggagggggga 60
gcacgaaatt gaaggaagaa aaaggagag aagttgaact ttgagttgtg tctcacaaga 120
ctctcattca tcaaagttac aacaagtgtt acacatgctt ctatttatag actacgtagc 180
ttccttgaga agctntcttg agaaaactct cttgagaagc ttctttgaga aaacttcctt 240
gagaagctag agcttagcta cacacaacc ttcataact aagctcacct tcttgagaag 300
cttccttaag aagattccta aagaactaaa gcttaactac acatacctct ctaatagcta 360
agctcacctc ctgagatgag aactagagct tactcc 396

<210> 186

<211> 139
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 186

tcataagcat ctacccattg cgtcaanaga tacatgcaaa gtgctacaca tgctgctctt 60
 tatacactga ctacctacct tgatgggctt tctatgagga cactaccatg gaaaacccta 120
 ttgtaatatc taccttgat 139

<210> 187
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 187

agcttcaaag aagactattg aagtgtggtt caatcaattt acaaactttt ggaggcagta 60
 gacaaagatg acagctggga aaggacaact agcagagtca ttctgaggta gtcattgttg 120
 ggaacctttc tgatgagcat tttaaagtaa aatcagaatg gtgatgttag ctgagaaagg 180
 atccatactt gaagtagatc cttttgatga agatcaacta ttatgtcttt ctgaagtagc 240
 agaactgcat caattntaat acatcttcac aacacanagc atcctgaagt agattgcttc 300
 attaaatcac agtgaaggca tagnttcttg gtgttttagtg gtctatcana agttagaatg 360
 tgtaaagtct tcaatcttcc attctgatga tccaca 396

<210> 188
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 188

tgacactatc caagactcta tacaatactg aagctctggt ctctacagat cttcacacag 60
 cacaagtact cttaactctc tggagcttgt acctttctct ctctagaaac cctagacatg 120
 cacagatatg aattctaate catactgccc ttgtaaaatc tgaatatatg ctcatatatg 180
 cggccttggt cctgctcgtg cgctgtacgc acttatggac cggttaacgc acattagaga 240
 atttacgatt acagcgtgcc tttctcgcat atcgaatgaa ctgaatacgc gcacttaacg 300

agatgaagtg gtgcgggtcac agaacgctta ccaatcaact tttccagag tcttgctcgc 360
acttaaccca tgaatgttgc gcttatcgga cactt 395

<210> 189
<211> 499
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 189

cgattgaccc tttgagcccg agatcccggtg agtcacctgc agcatgagag ctatgcagca 60
attgaaatgg tcacaactgt tctctctgtt ttacgagagg ggcacataag atattgagat 120
gctcgaaatt catctatgga tactcttgag caatacaaat ggtcagtgac ttttacttg 180
gaggtgagat acacgctcat atgatatcgc gatgctatac attgaacaac agaagatctc 240
gacagattca gaaggtcata tcctntcaact cagaggtctt agtcaggccc ctagcatatc 300
gagacacgaa tattgagaga acgaatgggc tcgacaaatt catatggaga gagattttca 360
cttgtatgtc tcatatatgc gcataaggaa taaaaacgct cgggtctgtt gatggagagg 420
tctctagaaa acaaaggggc gttgtcttgc acgcatggca attcagcaca gagtgatgtg 480
acctcgata tactcttcn 499

<210> 190
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 190

gaggaagcaa ccctgctcgc ctgggagagc tgagctcgcc tgggagagct gggcggaac 60
cacctcccct attttgctat aaatagggga ggaaatgaag aaggaagggg tccggcccct 120
ttggcacttc tctctcttcc gaatttgctt ggaaaaattg tttccgtgaa gaaaatctaa 180
gccgaggcgc ttccgaaacg tttccgtaac gttttgcgtg aggaatctag cagaggtttc 240
aaccgttctt cgacgatctt cattcgataa gcacgatct tcgaccttct gcgggtaagt 300
accgccaacc aagctgttca atgagagtta tggacctcgt tggcttcaca ttcgcactcg 360
tgctatatcc tcctatagcg ctgacactag aacangaagc tgatttggtg tagcaagtaa 420

ataagact

428

<210> 191
<211> 238
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 191

aacattcttt tcagctaang attatatact tatgttcttt tcaaatgcan aatcactaga 60
tggatgaaca tgatgacatt gacatcttgg cttctagcac aacaggagaa atgttaacgc 120
ttttctccgt agggcatana aatcaatcta ttgcatggga tcacttttga taaatgccat 180
acccaatcc tttatcccaa gctaaatgtc gacattgtgg tgctntgatc aaatatag 238

<210> 192
<211> 210
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 192

tcatatctcc canaacccca tacncacgan nattaagaga gaaagaagtc cacccagacc 60
tggattntcg aagtcccact cgtagccacg cacttcacga ccccgaaat gccctccttt 120
cgcgatttgg agcagaaatg agcaccaaag gttggagctn ntgtcgggtt tcaatggaga 180
atggaggaga aggaaaaagc aacgtgagga 210

<210> 193
<211> 220
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 193

gagtttcgaa acaagagtat aaagtgtgca gagtcaaatc tggatatttg cttggatgan 60
natgggctag aatatatcta anatcagata cggnnngtgg actgcatctg gngtcggaat 120
gaggganana aatatgecta actcaactnn taaaaanaat caactaaggc taccggagta 180
ctatacgaac tntggtcata tgctntgatg atgagagatc 220

<210> 194
 <211> 209
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 194

attattcaga tgctttatga atgacaatca aaggtgactt ggaaacaaga aattaaagag 60
 acttttcatt tgccaaacag ntntatcctc tcaaaaagaa taagaagtnt tctgaactga 120
 aatggtntat cctctcanaa agattctttg gtcaaccact tgcattattca ataanggaat 180
 ttgattgac ttcattgtac aatctatct 209

<210> 195
 <211> 194
 <212> DNA
 <213> Glycine max

 <400> 195

actactcata attaattgcta ctagaagagg atgactgata actattatta ctataatattc 60
 caacaagcta ctcaccattt aggaagttga tctgtattac ctgaacaatg gcaactatga 120
 caatgatatg ttatgttcaa acattataacc ttgagttagg ctatgctgta gaaatgagac 180
 taattaatgt catt 194

<210> 196
 <211> 366
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 196

accatggtaa tcagaataga aagtctactt cttatgtaag agttgcagag attcctttct 60
 cacttctcac ttattacagc tagaacctat gtctagctga tggttctatc ggctgtgatg 120
 caaagattca ctatcaccct gtatctaata taaaagtgga cagattcaga attgttactt 180
 tagaccacgt aaagaataat atgcatattt gacaatatag accaagagaa actcagatag 240
 cacaatccag tggtagagaa gcaacactta atttagtggt cannagtcgt atatagacat 300
 gagaatagat accttgccan aattatccat aagacattta tttccattcc ctaccagtgt 360
 attcat 366

<210> 197
 <211> 276
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 197

atgccctctc tctcttctcn tttctctctc tcttctggct ctcttatatt cgnnttatagn 60
 tctaggctct tcttagacac tmntttcatt ntgcaattcc actnntagta ataaaaattc 120
 gctcttcaat ctataatttc gttctctatt gattaatgca aggctaagtc tccagcgtct 180
 gtttctcttg aggatcaagc acagttctct ctgaggtctt attattactg ggtaaattct 240
 gntcagtttt tctcttcact acatactctg aatttg 276

<210> 198
 <211> 234
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 198

caataatcaa taatctatct ttcaatcttc tctcaacatc attcaatatt tntcaactct 60
 ttctacacna atttctgatt catttctctt catctttcta aaagtttttg ttcaaacatc 120
 tctcttatga gaaaagttct ttgttcanaa acttggtgta ttcacccctt tcattctctt 180
 ctccctttgc caaaagaatg aagggactaa ccgcctgaat tctttgtgtc tctc 234

<210> 199
 <211> 499
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 199

atgaccctta gancctcaga acnctctaga gtccacctga ngtatgagag cttcagacag 60
 ttagcaatcc tgtgggtgcat tgttttatct gaactaccat tatcaagtaa tattggaacc 120
 accatgccat taattgtacc actaaacttc atagttccta ggccagagga acctttaagg 180
 gcattataag atagatgatg gtctaaattc atatgtgcca tggcttcctc aataatagaa 240

ggtggctctg gttgcacttc agcattttca tctcatcca ttgcaatagt aggcattgcc 300
 gattatgaca cctatgataa gaagtgaact tctcatgaca tgtataacat agccctttct 360
 cccttcgaat ctgcatttca gctggtgaca ttcttctaac atttcctggg atcggaaaac 420
 aggagtttga tctaactcag tctaggcacc tgagtcacaca ttcccttgaa tggatatgct 480
 aagagagaga cttgtgact 499

<210> 200
 <211> 299
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 200

tgtcgctaga gctgaccat caactgtcct atctctntca gactggcgac tcttangetc 60
 ttgatcttga cttgatagaa cctctntnta agtgaagggt gcctgactcg atcccatggt 120
 tactaaagtg gaataaaaac cagtgcgaat caagactgtg acatctatca caggtgaaat 180
 ggatgaatgc ataaagaaat gcatatggca cagatgccat ttacggatac ganagcccca 240
 gagaatatct atttcttana tacaacattc nggcagcata gtgcccgatg catgcattt 299

<210> 201
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 201

attattatct gaactaccat tatcaagtaa tatttgaacc accatgccat taattgtacc 60
 actaaacttc atagttccta ggccagagga acctttaagg gcattataag atagatgatg 120
 gtctaaattc aaatttccca tggcttcctc aattctagaa ggtggttctg gttgcacttc 180
 agcattttca tctcatcca ttgcaatagt aggtattgcc gattaggaca cctatgagaa 240
 gaagtgaact tctcatcaca tgtataacat agccctttct cccttcgaat ctgcatttca 300
 gctggtgaca ttcttctaac atttcctggg tntggaaaat tgganngtgt aattcatttg 360
 gggcttgga gtaacggcgg catgcttggt gacttttctt actgacacta ccgctgactt 420
 ctacttcct 429

<210> 202
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 202

atgactattg aataatctat tcatgtttcc tttgatgaat ctaatgctat ttctccaaga 60
 aaggatattt tagatgatgt tgcagaatct ttagaacaaa tgcattattca tggacaagat 120
 tctaaagggg aagggaaagg aagcaatgaa gatcctccag aagaagccaa atcaaagat 180
 gaaggtggca tccatggagt tcaactgacta tgctcttatt tgggtgggact aacaacaaga 240
 agatttggag aacctttggt gaatacttag gaggacatga aaagattaat gagaagaaga 300
 tttgttcctt ctcattataa taaagacctt cataacaagc ttcattaggct catacaagga 360
 anaaaaagtg tagatggata ttataaagag atggagaatt ccttgagtag agccagtctt 420
 aatgaagatc aat 433

<210> 203
 <211> 240
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 203

acactcgngg atatgnggac tntctctatt caactntnnt gttcgtccta tcagtagaat 60
 tcgtttgtag ttccgtacac aattntcttt gcttcttcag tttacagtga gttagatatg 120
 ttctaattat taatttcttt tctttttttt tcgaatattc catntaccat aaatagttgc 180
 agaagcttct gtcacaccta taaaaacact ntatatttga cttgacgaat ntatatgtat 240

<210> 204
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 204

gtgtccccc tcgaaatgan aaacctttat tcaaaccttt canagntagt gagaaggcta 60
 aacgaaaaat aggggaactta gaaaagctaa atccttaact gaaggcgtag gtgacaatca 120

tagtgaatta ctaaacaaga atggtagttt acttaaggtc attccagata cctcccaagc 180
ctcggaaaat acttctaana tggtacaag aagtaccttc aaatttaata atggtattaa 240
tgaagatagt gaccaaactc agatacacac ttggatagga cactatcaga aagatataat 300
ccaataattc aaaactgaaa cacctcaa atatatcacg tcaactgccct gcctctatag 360
agaagaggaa acatttaaag ttagtgaata cattacgatg acataatgac aacgagatac 420
atatgatacc tcacata 437

<210> 205
<211> 505
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 205

ntgaccctga accctggatc tctaagtcac tctgaagatg cacgcntang aganaccata 60
aaaactaagg tagtttctaa actaaaatca attgaggaag cttcgccaag tatccccatt 120
gaaaaacctt tattcaaacc tttaaagtt agtgagaagg ctaaacgaat aattagggaa 180
cttagaaaaa ctaaatectt aattgaaggc gtaggtgata accatagtga attacttaac 240
aagattggta gtttacttaa agtcattcca gatactcccc aagccttgga aaatacttgc 300
aaaatggtaa caagaagtac ctacaaatta attaagtta taattgaaga tagtgaccaa 360
agctcagata acacaactga gataggatca gtgtcagaaa tgaatataaa ttcaattaat 420
tccgagcact gggaaacacc ctccaaatta tattatcaac gtccaactgg ccttgacctt 480
ctattataag aaagaggaga aaacg 505

<210> 206
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 206

tgctgactcg agagacaagg acaaccact ctaaagcatt tacgccatca gactcactgc 60
ttgagggggtt gtacatcatc cagaaagcga atccaataa taccgactca agagacaagg 120
acaactcatg cttaagcatt tatgccatta cgcttaatgc ttgagggggtt atacaccgta 180

caagatgaat attctattaa taatgactca ggagacgagg aagactcacc cttaagcatt 240
 ttaggcacaa ggataaatgc ttgaagagtt gtacaccgct cgagatgagt attctggaga 300
 tattgcctct agtgaggaga tgacttatcc ctanacattt atgcgacaag gctgaatgct 360
 tgaggngtta tacgccattt atgatgaata tcccananat accgacctaa gcaaaagaga 420
 cacg 424

<210> 207
 <211> 511
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 207

ntgaccctga aaccctcgna gcacctgaga taccctacag acgatgagag ngatgcaagc 60
 ttccncaaca tccaagtaac tctacattct aacaacacaa accatcacag ccaagaatac 120
 agggcaaagg cagataactc tgcccaaaac accaaccaaa atcacagctt ttctcactta 180
 aagacccag taacaattcc ttcgttccaa ttcgttaacc gttggatcga ctccaaaaga 240
 ttactggaag tctctagtac ataagcctac attatgaccg ttgggatcta ctagcaaaca 300
 tccagaactc attctgaact actctgtcca cagccaatta cacacaagca ttgttctgca 360
 cttgtgcaaa attctgctgc acaatttcac agcataaatc tgcacaaagt gcagatttcg 420
 aataccacac ttctctcat ccaatcttgc ccaaatcaaa tactacaagt cccnatcatg 480
 tatcaatcat gtctaaacca gagccaagct g 511

<210> 208
 <211> 257
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 208

actattccaa tacgctngga gcagcttaat agatctcaag ctgtgcaaatt attcagagct 60
 aatagattga gctgagtcta aataatgaag gaacagttat tcaagttagc ttcattatcc 120
 tccgggattc ggaaggacac attttgcatc cgatataatg attcacatcg tgatgtagtc 180
 ttgaattatc gtacatctat attacgccg ttctctattt ttgtacatga atatagacag 240

caacatgcaa tgaacag

257

<210> 209
<211> 488
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 209

acccattgaa tcttgagacc atcgtnananc cagagatcct ctagagacga cgtcgacgca 60
tgcaagcttg ggctgggcct acctccatcc ctagagttag ccgtatgagg cggaagctcc 120
acgtacggtt ntgaagccga gcctttctag caatggngcc tagggaccga tatgatgatt 180
ggtttaggta gggcgggccg cctactacgg gcacctgtag ggattagtgc ttgagaccgc 240
gateccacaaa agcatgggac tcacccttta cttgagaatg aagaggggaa tgacacgacg 300
tttcaagagc tatgcgaggg gtgaacaaaa ctgcagaggg atcttcctga ccaggcgtga 360
tagagatgcc ctttattacc caactcatat tatcattcaa tcttgctttg tgccactcag 420
tcttgggggg atccccctcc tttctctttt ctctcaaccg gcgtcccttt cctccacaaa 480
cgtgctcc 488

<210> 210
<211> 180
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 210

tgcattcttc ttcaactcct gaagccctat catagcagac tcaagaacat nctgcattcc 60
anagatcact ttcattngaa tgcactatgt attggtagtc ttcccatcca ggaatggtag 120
atgcgttgaa ggtccgttcc cattcatctc tgaaacactg aagcttcagg gatcccacac 180

<210> 211
<211> 510
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 211

ggtgccctta ggcttgagac ccctgtagan cccgtgatac tttgcagacg acgcccangc 60
 atgcaagcta tgatgatatg gtcttcacct tcgaaatgat caaagtgggt ctgagaagag 120
 gcaaactctga tcatcttgct ttgatacatg cgaacaaaca aagttggggc aaatacagag 180
 ggtgatgatg aatgagaacc ccgagctgtg actgacattc ctatacagcc gagtttccca 240
 ccaacccaac gatgtcatta ctcagtcgat agccaacctt ctcttacct accgcccagt 300
 tatccacaga ggccatccct ataatatcca cagagtttgt cgttcgact ctcaatgacg 360
 accatcatct ttagcacana cctagagcac caaccaagat atgaatttag cagcgagaaa 420
 gcctgtagaa ttaatcccat tccagtgtcc tatgctgact tgctcccata tetaattgat 480
 aactcaatgg tagccataac cccaaccacg 510

<210> 212
 <211> 425
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 212

acatttgctt gttgctcgtg tgctgagtgt gtgatgagat cgtgtagagg ggtttgatgg 60
 aacttatatt tatattagtt gagtgtggct gctagtcctt gtttgtaggg gatattgtag 120
 tctttgcagt taattctcgg cttgtagata ttaatcaata gcttacatat aatgttagag 180
 ataaacattt gcttatagat aaaaaggtag aagataatca aacctttag ataatgtgtg 240
 ggcttataaa taattatttt aactgccaat agataagata ttcaaataca tttgaatatt 300
 agtaggttag agataacctg tttgttgggg agtccggctg gtnacgttca tccctcctct 360
 cttttggcct gccttcattg tngttgctc ctctcatga ttcttttctt ctacccctcc 420
 ttccg 425

<210> 213
 <211> 190
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 213

tgaagacccg cacanacatt ngaaagaatn tcacattgtc tgctccacca tganaccccc 60

<210> 217
 <211> 181
 <212> DNA
 <213> Glycine max

<400> 217

ttccaccatg gagatgcagc ggaagacaaa ggagaagagg taagaggcgg cgccatccac 60
 tagggaataa gccttggaag aaggagcttc accaccaaga tgagccttgg ataagaagct 120
 tggagatgat gcttcaatgg aggaaaagaa agagggagag aaagagagag gggggagcac 180
 g 181

<210> 218
 <211> 274
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 218

gcagctgagc ganggtccaa tcattacceca ttatttacct tcntgnctta catttcttgc 60
 accaacaact tcgtcacttt catanttgga aggggtgcta catggaagtt gagggcagga 120
 gaggaanaaa gatggatata attatgtagc gagtggactg aagggatngg tgtggattct 180
 tccatcgtgg tcttcacata nttttggttt tgcatacaat acattgttgg attacgaaca 240
 cctaaatcgg acgaccttgn tagctcttca cata 274

<210> 219
 <211> 249
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 219

accatcacga ttatcgtctt ccttgtcatt attgggggta ccacctgagc cgccagatcc 60
 ctacaccttt tgagcgtggt ctttgaaaga tccgtcctcc tttgtgcaca tgctcatgag 120
 gtgcatccta tccgaaacca tatcaagatt gtactgatac tgactaacac aggcaaccat 180
 tatgtccttg caagaatgga ctctgtaatg ctccaagtta gtgtaccang taacagctac 240
 ctgagtaag 249

<210> 220
 <211> 246
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 220

gtatctngtt ntccatcgat gtgccatcat tntcttctat gttctanacc ctgtctcgca 60
 ccatttaatt attgattggc ctttaattgtc aattaattag gcagttctat tatttgngcc 120
 cattcagcca atgtgatgct ttttaattctaa tttcaggaat taatgaagaa ttgngcttga 180
 atctagcatt gngcttgaat ctagaattgn gctcggactt gaagagggca aactatatta 240
 ttctat 246

<210> 221
 <211> 510
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 221

gtactgcgcc tcgtacttca cancnctgta gtaccgcgga tccttagagt cgacctgcgg 60
 catgcaagct tgctctanat nttcattgat gtttgtattt atgggaggag gttatatgtc 120
 cattttgctt taagagtagc gtccactgg taaaattaac tttccaaatg tttgccttcg 180
 caggaatggc cccgaggaag cttgcctcaa agaggccag gaaggacaac ggcggcgaaa 240
 gaactatttc cgctccggag tacgacagtc accgctttag gagcgctgta caccagcagc 300
 gcttcgaagc catcaaggga tggctcgtttc tccgggagcg acgcgtccag ctcagggatg 360
 acgagtatac tgattttcag gaggaatatag ggcgtcggcg atgggcacca ctgggttactt 420
 ctatggncaa gtttgatcca gaaatagttc ctgagnttta ttccaatgct tggcaacaga 480
 ggatggcgtg cgtgacatga gatcttggcg 510

<210> 222
 <211> 207
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 222

tctcatgcac ttagtgcca nataatat ctatagttag aaatttatta tggtatggta 60
aaaatagggt tgttcaatct ctgtaaacca tanttgcat gntctttcaa ttaactgaaa 120
taatgagtct gtgagacatg acttaagttt aattctcaca gaatacactc ttngaaaatg 180
atgattagct ntaagtgtga ctaagtc 207

<210> 223

<211> 431

<212> DNA

<213> Glycine max

<400> 223

tctggttgat gagttatcga cagcgatgac tgccaacagt cctgagaatg tggtcaggac 60
tgattacgtg agatgcaatc tagaggattc tgatctatta gaagacttgg ttcattcattg 120
cttgagacta tgacctcgac tatcctgaga acattctcgg aagacttcgg aagggatata 180
ttgaaatgag gtttcataac tccttcatgc cattgataag gatctcgacg agcttctttc 240
tctgtcttgt acgtcacgaa agatcctacg ctctggcgat cggtcaccag aaacagggca 300
tcggatccca ctggcgatca ttgctgtact attcattttc gtgcgctcaa gacgcttggt 360
tctgcattac cagaggtggt atcagaacgc gtcattcgca tatctctgcc actgtcctct 420
tggtagagaa t 431

<210> 224

<211> 481

<212> DNA

<213> Glycine max

<400> 224

ttggcctgga gctggtcttg agcaccgccg ctgcagcttg ccagcatct ggatcacatt 60
ttacgacgca atttgttggg gccatttctc acgactaagt tctctcctgc tccttactca 120
caccacgaac aatatagttt agcgattaca ttgtaagagt attaggaact tgaaaactaa 180
gcacaggcta cactttaact aatggccttg ttgctctcgc cattcttgga acctcagcct 240
actaattgaa acgcttcgag catgttggtt ttgactgccc atatgggggc gtttttctta 300
taaaggaaaa aataattggt tatataatcc gggggccttg atattgacag actgctccac 360

actaactttt ggtttatttg aaccctcctt tatagggtct aacacttgac acacgcccc 420
aataaggcct tgagaccaat atatgctttc ctctatccta tgggtgcctta tctcctatac 480
g 481

<210> 225
<211> 277
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 225

acctagacta taaatagaag catgtgtaag actaggtgtg actgtgatga atgaaagtct 60
tatgagatac acttcanagt tgcacttctt tgectctgtt attccttcaa tttcgtgctc 120
cccccttctc tctntctttt cctccattaa agcatcctct tcaagcttct tatccaaggc 180
aattcttggg ggtgaagctc cttcttctt ggcttatcc ctagtgatg gtgcctcccc 240
tctctcttc tcctttgct tctatcgaa cctacc 277

<210> 226
<211> 279
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 226

acatcccact gagatgcact atgtaagtac ctttcanaaa acagacttgt tgagaataag 60
ggagctagca tctntagtaa gtgatccagn tgattntcaa gtcaccatg ggaagttgct 120
cagaattctt agagtagatg ttgaggaagg atgcctagag accctggctt agttctatga 180
cccgtctac cattgcttca catttccga ttaccagctn gtctcacac tngaagagta 240
ctctaccta gttggcttac ctgtgccaga caagatacc 279

<210> 227
<211> 220
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 227

tcgtcttatt canaaccnca accaattatg anattcncta tctcccactt cacacctcgg 60

aacgcaccgt tcttatagag agaggcgctn tcacatcntt cttaggctgg gagaggaaat 120
 gttcccatnt tttatgatac tccgngaac agatatccag tggagatgac ggngtgngc 180
 ctgtagctca gaggattaga gcacgtggct acgaaccacg 220

<210> 228
 <211> 379
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 228

gcagcttaga tgatagaggt ggagactcag gtctttctct tgcttgactt cttataatg 60
 tggaggactt ggctgacgac tccgctagat ggggtatatt gcgctacacg cttttctcgt 120
 tacgccagct gttccgctac cgcattggtan gccttcaata tttctagttg attcttttga 180
 cttaatcctt tacgattgca acaggaagga aattttaatt ttacaatagc atgatactgt 240
 aatattttta gatatttata ttttagataa atactattta gagtatacac caagtgagtc 300
 acagtgtgaa tgactgaatc agtgtacacg acaacagcaa gtgaaatcgg tgacaacagt 360
 ctcacaaata tcggcacat 379

<210> 229
 <211> 169
 <212> DNA
 <213> Glycine max
 <400> 229

atacctgtaa tgctgcatag ccacagaaaa tctcttcttc tgattaacac caccttcgtg 60
 atcataagct tctggcattc tatactggca gttcaggaga acatatgagc cgttggaaag 120
 aaacatatag atttgtcaat ttacttatat atgcccataat ccctttgta 169

<210> 230
 <211> 497
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 230

nttaaccgt gagctttgag acccttcgag naccgtcatc cttggagaag agtctaggca 60

tgcgagcttg tgtaattaga tacaaatggt aatgtttatt tatataactg tgaaagcgca 120
 taagtgtggt gaaacaaaaa cctgaagtac catctcatta gtcagagtat atacaagcat 180
 gtacgggtga tagaaaaaaa aaagatgttg gaagggttga tgacttctta gtgcatagag 240
 tgttactcac ggtgatgatt tcttctcttg ccaccaaagtg gcatatgtcg gcgatggaat 300
 atatatgtta gaaggggagcc tggcaatgat ggcattatat tattgctttc acatagatag 360
 atatgtttta ataccttctg tgcacttccg tttatttatg aaatagtggg aggggtgttat 420
 ttcttgaatc cttgatTTTT tttAACgacc gaggtgacat tctatttttg tctatagatt 480
 ataacacttt atttaat 497

<210> 231
 <211> 503
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 231

tgggggttttc cggtttggtc tatagtcttg gacntcaagt gctctgaggt atgcagatta 60
 ccatcagacc acttncaggg tgctgtaact actttatatg gacttgatgg ggcctatgca 120
 agttgaaagc cttggaggaa agaggtatgc ctatgccgct gaggatgatt tctgcagatt 180
 tacctgggtc aactttatca gagagaaatc agacaccttt gaagtattca aagagctgag 240
 tctaagactt caaagagaaa aagactgtgt catcaagaga attaagagtg accatggcag 300
 agagatagaa aacggcatgt gtactgtatt atgtcatctg accgcatcgc tcatgaggtc 360
 tctgcactca tcacaccaca actatatggc gtatttgana tgctaacctc gactttgcca 420
 gaagttgcct ggacttcttt ctcttttaca acttcactca tttctggttt tttccttcca 480
 ccgtctgctt tttgatgtat tgc 503

<210> 232
 <211> 259
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 232

gtaatattat agccgatgct ctntctcggc gtcatgcatt actttctatg cttgaaacan 60

naatgattgg tcttgaatgt ttgaanaaca tgtatgaaaa tgatgaaact nttggagaaa 120
 ttttttaaaa ttatgatatt ttttcagaan atggtttctt tagacatgaa ggctttcttt 180
 tcaaagaaaa cannatgtgt gtgcctaaat tntctactag aaatttgctt gttttgtgaa 240
 gcacatgaag gaggttaat 259

<210> 233
 <211> 300
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 233

aatctcaata agtcaacaat gacattcgaa gaaatcgaaa tacgttatgg aggggatgta 60
 ctatagccaa tgtgtggaag gcaatagaaa gaatnggaaa ccttaatcta atgctaagtg 120
 tagagagtga gagagagaat gggaacttag taactcatga nagactntga agtctgaaca 180
 agttagtga tgtgttagca ctacatattg aagctttaaa tataaaanat atgtaaacad 240
 ataaacaaca atagtaattc taaagacatg tcacatcant gggcttatgg gttgggtcat 300

<210> 234
 <211> 271
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 234

aagaatgtgt atgtgtttct tgatttcagg gttgtcatca tcaaanaggg gaagattgta 60
 gaagcaagct tcatgatgat gaatcaagtt gattcaagta gttctgatga taacatagat 120
 gatgacaaaa agccaaaaga atgatntcaa gattgagtca acaaatataa gattaaattc 180
 aagaatcaag agtcaagatt caagaataat caagatcaag aatcaagact catagattca 240
 aanatcaaga gaagacttan tcaagataag t 271

<210> 235
 <211> 212
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 235
gagagagaga ggngaggnga gcataatatt gaaggaggac aagagagaga gaagttgaac 60
tttgatatgt gtctcacaag actctcattc atcaaagtta caacaagtgt tacacatgct 120
tctatntata gcctaggtag cttccttgag aagcttcttt cataagcttc cttgagaagt 180
tagagcttag ctacacacac ccctctaata ac 212

<210> 236
<211> 266
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 236

cacatcaaca tgctngaacc ttcacttttt gtgagnaata agatttatnt ataagaatgg 60
ngaacaagga tcaaactcta gaccacacag ttatagaggc tccaattaca tgtcatgaac 120
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<210> 237
<211> 338
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 237

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<210> 238
<211> 269
<212> DNA

<213> Glycine max
 <223> unsure at all n locations
 <400> 238
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 tcaatccaac ctcgattctt tccccggcaa acaccagatc cgcaaagctg gacggcatgt 180
 aacctactag cttctcatag tagaactctg gcagagtgtc taccatcatg gcgatcatct 240
 ctctctcaac catgggagga gctacttat 269
 <210> 239
 <211> 246
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 239
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 gatgtaccat atacgggggg agaacatcac cagagcagac ttgctctcca agttggctag 180
 cactaagaga gctggacatc ttaagaccat tatgcaagag acactccaag cacctaccat 240
 agacac 246
 <210> 240
 <211> 271
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 240
 acaacctcaa gatttatcat atacttatca agagaatcaa tccttaagag agactntcca 60
 nattcattgg aagcactgag aatcttgaca aactgttaat atacagtaga tgtccttcta 120
 acagatctgg acatggatat gaaggagata cttatgttca tgataaggaa actaccaa 180
 gttatttctg tggaaaggat caatgttngg tcaaagatcg cattggagac ccttctacca 240
 ttgtcatgac ttgagtgcct tcaatcacta t 271

Index

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actcn						425

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<400>      242
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attacccctc tctgcttctt ctgttgggct tcttctccct tctcaacact atggcagaga	180
tcctatgcaa ctgaaccana ccanaatctt ccatcaagaa caaaccanat tngaaaaacc	240
acaatggaca aac	253

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<223>      unsure at all n locations
<400>      243
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99

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 tacctcacgt cgcgtttact tcacatacct ccccgctcct gcgcattcct ctctaccct 300
 tcgccaccta gtccccattt tccctctntc tccctctcac ttcttgcttc cacttaccct 360
 cccctcttc ctctctcct ctctctctc ccc 393

<210> 244
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 244

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 aaagttatga ccaattgaat ttctcgagag cctacgtcgt tcaatatcga gcgtctccaa 180
 tattatgcac ctgaatcgga catccgagtg acaagttata accaatcgta tttctcgcga 240
 gctttaggcg cgcattatac tacacctcca tacatatatt ccaactgactc gtcactctac 300
 actcaaacct attatcatct ccatactttt ttgataaagg ttctgatccc atactcactc 360
 ctatctctcc ttcatctcgt ccactcgttc ttattttctt tccactcgat ttatcc 416

<210> 245
 <211> 222
 <212> DNA
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<400> 245

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 tagcatagtt agctctcttt tgctagagga caagcaaac tatacatact ggggagtttg 180
 atcattgacg tacataagtg gattatgcaa ttaagacata ta 222

<210> 246
 <211> 429
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 246

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ttatcttacc tccaacggaa gcgtctagaa gttgcttcga gtgaggctcg aagccatcaa 180

taaaaatatt tagttgtatt ggctcactaa atccatgcat tggagtctga cagagtaaac 240

cgtggaagca atctagagct tcgctgagtg attcgtctag ggactgatga aatgaaaaga 300

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caacctcttc ccaagttctc aagttatttc ctttaaacga gtgaaaccat ctcttatctc 420

actggcagg 429

<210> 247

<211> 215

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 247

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ggctcctaaag aatagtataa tcatcacata ctaggtatcg tttggaatct tttaaagtag 120

aaagaggata ctatctcgat aatcaatata taatcataat tcatgagtat caatctaata 180

aatataatca taattcatgc taatcaatat atact 215

<210> 248

<211> 510

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 248

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agcgttggca aatggagagg aatattttgt ttctatatgg agacgacgaa gagagcaagg 120

tgttggaggt ttctgacaaa attgaaagga tttgatttga tcgcaagcaa taggtgtgggt 180

agtaagggtg ggggacgaag gattggccgt gtgataggag ggcaacgaac aaatttccaa 240

ggcaacgaaa aatgatttac attttttatt ntgttcgcta aatgtttcat aagtcttact 300
 aaagtgaatg caagcaaaag aaacaaatat ataaaaagga taattaccat tttagtcac 360
 cttgaaattg caaggtgttg tcccattact ccatgacaag aacaatattc atattaattc 420
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 ctctctctct tttccatcta ttatgtgtcg 510

<210> 249
 <211> 239
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
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 ctgcagaaga catgtctctt gggctactca nagccaaggg tgatggattc atgacattga 180
 tcgaaaatgg taaatggatg tgtgacgagg cacctcacag tggaaatgaa tatgtaaac 239

<210> 250
 <211> 255
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 250

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 tgccacctc caactgagct cacgtactcc cacgtagccc atctcctcgt ttctctcaac 120
 accgggtccc catcaatcct ctcaagcttc cacaacatcc aagcanaaca acgttcaaac 180
 agcacaagct atcacagcca agcaaaacag agcagaggca gataactctg ctcaacacat 240
 caacaaaaat cacag 255

<210> 251
 <211> 230
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 251
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ggaagactca attgataaat taaattacag gggaacaaaa ttgtgagcta naatggaaga 180
ctcaatccga cggcctcagc taccgtttcg aactcattcc ggacaccaat 230

<210> 252
<211> 224
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 252

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cctctccagc aacaggtaca atccccgagtg gagaatcatc ccaaccttag atggctgaat 120
ccttcacaac aacagcagca acaacaacaa ccttaatttc anaatgctgc tggcccaagc 180
agaccatacg ttctccacc aatccagcaa caacaacagc aaca 224

<210> 253
<211> 426
<212> DNA
<213> Glycine max

<400> 253
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gctatcgatt acttcactaa gagggaggaa gccggttcat atgctaccgt gactagaaat 180
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gctcacaaga atactaagat gatcatctta gagatgacag cgacatacaa aggattgcac 420
gagacg 426

<210> 254
<211> 505

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 254

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tagtgtcatt ggcacacttc ttaacattca aggcatgaca aatgaggcgt agaacactcg 360
acacgatctt attaatatgt ggatctgaga ccacttactt cctaggtttg acggtgaaat 420
gttatectct cctcccacta gtgatacttt gttcaataac acattaactt tacttccatc 480
ttattctacg cttccttctc ctccc 505

<210> 255
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 255

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caccgatttt cattagaacc gatgtaaaaa gtgctttaca acatcaattt ttagtagaac 120
cgatattaat gtagtnttg cataattaaa aaaatatttt gtttcacaag aaccattttc 180
ttcgtgatcc atttttttaa aaacataatc ctgtgaccat gaagaacaaa actaagacac 240
tataatatta atataataaa tgcaacatga agcagctagc gaacttcaaa aaaattattg 300
cgaaccaatg atttgatgtt ccagtagcaa cttggaccct tggaatgctc gtattgctta 360
tagcatccta naagaataac aattattagt tgcattgggt gggttccaat tatccctgaa 420
aatatgtcag ct 432

<210> 256
<211> 206
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 256

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ggagtacata ggaanatcct ttcttaatag ttccagcctc catagacaat aacgttgctt 120
atgaattaag aacaacaata aaactagtct gaatatgtga aacacataat ctgaagaaag 180
aatagctata ttcataca gcaata 206

<210> 257
<211> 221
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 257

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tttgttgaat ntgatgagaa cctcattgca atcttcaagc acatattcaa cctttatgga 120
gaatattctg atagtgccaa aaagaagata gccagaact ctattgcana atcttgtctg 180
cagaagggaa aatganatg aataacataa cataacatta a 221

<210> 258
<211> 478
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 258

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aatcatggtg aattactaaa caaatnggta gtttacttaa ggtcatccca gaaactccnc 180
aaacttcaga taatacttcc aaaatggtaa caagaagtac ttncanataa ttaatgtatt 240
aatgaagaat gtgaccaacc tcaaaaatca agtggataga tcagttcaga aagaatataa 300
tcattaatcc aacactggaa acacctctaa tatatataac gccaaactgcc tgactttata 360
gagaagaggg aaacatntag agttagtga cacattatga tggactgatg caacgagata 420
catatgatcc tcacacatga ctgagtcact acaactcatg atgtaaaaca tatatatt 478

<210> 259
 <211> 507
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 259

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 tgagtatgga agcgtcaciaa ataacttctt aggtttttat aatctaata ggaaccagaa 120
 tctcggaggg gtgaagacac ccactacctg cgatgagttc ccgggtggag tactctggct 180
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 aaccagaata ttcttatcat gctgctcaag aacaatgcta gagtttatat tctgagctat 420
 ctaanacgat gggacattcg ctactccgtg aaataacaac cgcccagaat tctgcacgat 480
 accttctcat ttattataat cccaaag 507

<210> 260
 <211> 290
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 260

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 agtctctcan anatggctta agaacttaga gtccctatca ctaacaatgc tccttggcat 180
 accatggagt ctcacaatct ccttgaataa cacatcagcc acatgggaag catcatcaac 240
 tttcttacat ggaatataat gagccattnt agaacaccta tcaacaacca 290

<210> 261
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 261

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 tttaatcgat taccaagata atctaatacga tacatcattg aattgagcga ttaccttgaa 360
 gactcaactg ataacagacc ggtgtaggtg ttttctctat aaacaaccaa cttgtgctat 420
 gtataacaac acaacaattt gatctctagc agagcctgca tcacttggtg ttattaaata 480
 aagaaagaag cat 493

<210> 264
 <211> 509
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 264

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 gcatgnaga ctaagcgcac agttggggca tttatcacta ttacctgtat cacatacctg 120
 atccgattat gacttgtact gtaaagaatc acgagtgatt gatattatga tcctcgccac 180
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 taccaatgtg agttgatatc atcctaagg 509

<210> 265
 <211> 485
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 265

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 ctattactta tggcaccgat gagagcgcac cgactactca ctcaacagcc tattgtaaat 180

ggacactgac taaacccatt cctaacacac cgttctatag cgcgacgagt ggcgtgagag 240
 acttacttac tccagcctac tctttcaaca ccaagactta cagagaattt catttcctat 300
 ctccttcatt aagtgtatta cactagtgc cttctatgcg atgggttgac tagaaaaaga 360
 gcttaactcg tgccacactg acgactatga gcagtacatt agagcgatgc tgttaaatac 420
 agtccacctc tattttcctt gtcaagacaa atctacatgg acctctgtta ggggggttcc 480
 caacc 485

<210> 266
 <211> 435
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 266

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 tttatattat tatctatata gtttttctta cacacacaca cacacatata tatgtatagg 180
 tatataattg tacatttatt tctggcaaatt caagaagcta atttgtgcac aaaatcactc 240
 tagaatagcc ttaacatgag tccaaaacaa catttaagca caaatttaaa tcctcttact 300
 tgcttcaaat ttaataagaa atgggtggtga cttaaactcc acaagttact tgcccatcaa 360
 caactcanat gactnttctc aattcacaca acaaccctat ggtaaatacc aatttgagtt 420
 gatatcatcc taagg 435

<210> 267
 <211> 200
 <212> DNA
 <213> Glycine max

 <400> 267

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 taggctgaca tatatatgta acatggaggg aatgaaagcc agcgcaattg cactcactgc 180
 tctagcagaa tatacaggtg 200

<210> 268
 <211> 272
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 268

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 cgaagacact gacanagact tatcttcttc ttattggaca cagtatggca ggctggcggc 120
 aagtaaatat tcatcccatc agaccttgga tgcaactgtg atcgtatgcc catatcagct 180
 agatcttaac gggatttcaa gccatccttc gtcttgccctt gaatggtaag gagcgtacca 240
 atcacactgt cacaaacatt gttctccaca tg 272

<210> 269
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 269

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 caggacgcgt ctctgcaca gaatgcagaa ctctctcact gcgcaaaagg agtgtataga 120
 cttttcttca tatatcgagg cccgcatgca tcttcgtgac actattgacc ataaagcatt 180
 cttgcacatg catgatatga aattctgac ctaatcatat gcctcctcan gttcatctcc 240
 aagtacagtt gacagtgtgt gtttcttatg cacccttaac tattgcaaat atgatgccgg 300
 ccactataca tatcacgctc tctacaccag aggacctttt ctatcttgaa cacttcatat 360
 attgcgcca tgacctatcg catccccact attacgcctt gaggaccaca atgcttacca 420
 atactcctct ttctcattac tacacaaacc g 451

<210> 270
 <211> 262
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 270

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 agcaganaga aatagatcca aacgattagt aatcactggg atttgattaa ttngatcata 180
 atacctttgt tntgcattnt caaaatcatg gtaatcgatt acaatatgtg gtaatcgatt 240
 atctcannat aacatagatc at 262

<210> 271
 <211> 146
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 271

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 agaatttcca ccaatttaac ttgctataga agctagattn gatttcctct agttcanatt 120
 tcttggtctt gntcttgaac catgaa 146

<210> 272
 <211> 99
 <212> DNA
 <213> Glycine max
 <400> 272

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 atttttgcat gaatctctga agtatggact gaatgcatg 99

<210> 273
 <211> 227
 <212> DNA
 <213> Glycine max
 <400> 273

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 gtatcttgta tttattatat tatttgtagag cggaagcgct attgttaatg cttgttcaag 120
 taccaccca tatcaggatt cctataagat tctcgctcca catagtgttg tactggatgg 180
 gccattgaca aatgtaacac cctctaccct cacacataac gaataaa 227

<210> 274

<211> 418
 <212> DNA
 <213> Glycine max

<400> 274

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 tgagaaataa tcaagacttg tgtggaaatg tctctggctt ggaaccatgc ccaaaagcaa 120
 gtaaaaaatc tcaaaatcat aagactaaca aagtcataatt ggtatttttta cccggttggtt 180
 tgggtacttt aatattggca ttatttgcct ttggagtctc atatcgtctt tgtcgaagct 240
 cagagacaaa agaaccaccag gatgcaaaac caccaggcca aaatctattt gtgatatgga 300
 gttttgatgg aaaaatgggtg tatgagaaca tagttgacac cacataagag ttcgacaata 360
 aacatctcat tggagttgga ggacaatgaa gtgtttacaa agaagaaatt gacatact 418

<210> 275
 <211> 508
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
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 tcatataaat aaaaggcaga caaaatgtcc attgtaaagc atgaccacat caatttcatt 180
 tgcattagtc ttgaagacat aaagattcta catgttgcaa gaataagaat gtaacagtag 240
 aacatcccat ttctcagaga atgtttacct attccaaaat atgggtgtct tcaatgctaa 300
 gcaatgtaga ccatgctcat tgtgcccatc catttgaatt tcaactcaagt catcaccaac 360
 gttaacaagt tctctagagc acctgactat cagacgacaa agatcttttg ataaagaaac 420
 ctctgacaaa gtaacaacat cagcttccac aaggtgaagg ttaatacttt tcctcaatga 480
 ctcatcatg catgatgcat acacaccg 508

<210> 276
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 276

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aactatagag gaaatcttct aacttttagaa cttttcttct aaccttaca tgatgatgca 120
tgatgcacat atgatatgat agagactaag atgcaacaca caatataaca atcaatacaa 180
atgccactca agagagttgg gcatgtaaaa aataaaacat cttaaagctc ttcttcaagc 240
ttcaaggcta acgtttcatg ttgtctctcc tatctctaac aatattttca tggcacaaaa 300
catatatata tatatatata tatatatata tatatatata tatatatata tatatatata 360
tatatatata tatatatata tatatatata aaagtgaatg atatgttttt cacatagaag 420
gcgttccacc acaatag 437

<210> 277
<211> 519
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 277

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ctaataattta tgtttgaatt cgcattgatt tattttgatt ttaacatgac ttatgtggga 180
gcagggatga tttgccccca ccttgatgat tcgtctttgc tccttgagagc cattctctcc 240
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gaaataacta agaaccgtgg aaatgggatg acgtacatgt caattcccac tctcttctct 480
gatattagtc atgaaaatta cgtcacaatg ctcatccg 519

<210> 278
<211> 453
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 278

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<223>      unsure at all n locations
<400>      279
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<213>	Glycine max

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caagattcaa	gaagaaagcc	tacaaacaag	aatcaagatt	caagattcaa	gatctcaaga	180
atcaagatca	agattcaaga	ctcaagattc	aagaatgaag	aaaagactca	atcaagataa	240
gtattaaaaa	gttttttcaa	aactttgaat	agcacatgag	tttttgacaa	aacctttacc	300
aaagagtttt	tactctctgg	taatcgatta	ccatattggt	gtaatcaatt	accagtagca	360

naatgagttt gaaaatgtnt tcaaactgaa tntacaacat tccaaatatt ttcaaaaggc 420

tggaatcgat tacaatgttg tggtaatcga ttaccg 456

<210> 281
<211> 264
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 281

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gtgttatatt gttgaatntg tcaataatac atgtgttgaa gttatttttg ttttttttac 180

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atgactaath gttcatatta aaat 264

<210> 282
<211> 246
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 282

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tctttggctt tgcttctgaa gaataatcaa gggagaagat taattacaat tatcatagaa 180

ttaagccata tacatgttnt taaataccaa ctaagaggaa tacanatggt gaagaataat 240

catact 246

<210> 283
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 283

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ctatgttgta gcctaaatta ctaaaccctc gatccctcgt caggatgaat atccaagctt 180
tgtccgcaga tccctcattt aagactacac ctgatttaga cagccctctt aggtatagac 240
taacttaaac tgagtntcat cgcagatcc cttatgtaag actagactca cttcagtagc 300
ttaccaaagt taagcctatt taagccaaag ctttgaccgc atatccttat gtagactagg 360
ccaacctaac cagctttatg tacagcatat ttaaaccaac cttacctcgc aatccctcat 420
gaaggctaag ttaatcctgt tcatcaattc taggcag 457

<210> 284
<211> 429
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 284

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tggtgactat gttcatgat gtattntggg ccatacttga tgtacattgc atattggcta 180
aatgttggaac atgctgaatg aaatgttggt tctcataggt aaaagaaaac aataaagaga 240
acagcaatac agttgagtga ataagatctt aaatggcaca agaagatga gactcttggg 300
tctactcttc atgtctaatt ctatcttgac tcttttattg cgtagtgttt taatatgcac 360
tatcccttng ctctctattc tttggattac cactattcat attctcatac cttgccttgc 420
ccatacacc 429

<210> 285
<211> 544
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 285

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atgcaagctg gcttctacaa ccctgtcaaa cttaagtgtg ctcgnagnng gactgacaac 120
ccacgtagag tctgaaaacg agagtcttca cagtgcacag tcatgactgt gatgagccta 180

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acanaatcta	tgtatccaaa	accctcfaat	ttaatggatt	ntcaagtttt	gagaagttaa	60
attgggaatg	ggataaattt	ggagcaaact	ctcacctcac	acaagtctat	aacatcaatt	120
taaacttggt	caaactggat	ttacacctaa	aatttcactg	aatcaaaatt	tgactcctca	180
accccccaatt	ttaccctaga	aatggctctt	tgttcagttt	ggtcatttgt	ttttctcttt	240
agcacagccc	anactttctc	ataagtccta	aatgacattt	caagctagga	ttaactcact	300
ttaacctcca	aataccacta	aatccagatt	tggccttcca	actctaaaaa	attcactctt	360
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aacagtttcc	ataacaattt	caccacaaca	t			451

<400> 287

<210>	288
<211>	457
<212>	DNA
<213>	Glycine max

<223> unsure at all n locations
 <400> 288

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 aacccaatgt gaatcaaaaac tccgacatct atcatgggtg gaatggatga atgcttgaag 180
 aaatgcatat gacacagata ctttttatga atacgggagc ccgggaaatt gtcccccttct 240
 tagatacaac attttgggca gcatggcgcc tgacgtatgt atttaagaag gcgaaatgga 300
 ccctccgtcg gtttgacaaa gtgaggggac caagacacaa tccgtgcatg atgcatatgc 360
 ggaaggcaca aaacggtgat gtacatagta cgacaatatc cacaacaaaa tataagcaaa 420
 ggcatacatg acatttanga ctacatgcat gacagtg 457

<210> 289
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 289

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 ctagagctta gctacacacc cncataata gctaagctca ccncatgac ananaaaaca 120
 tganaataca aaanaaagtc cttactacaa agactactca naatgccccg aaatacaagg 180
 ctaaaaccct atactattag aatggccaaa atacaaggcc caaacgaaga anaaacctat 240
 tctaataattt acaaagataa gcggggtcatg cttagcccat gggctcgaaa tctaccctaa 300
 ggctcatgag aaccttangg ccttcctttg atctctagcc caatctactt ggagtcttct 360
 acccaatgcc cttgcaggat aggattgcat cacatgtcat ga 402

<210> 290
 <211> 457
 <212> DNA
 <213> Glycine max

<400> 290

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cccacgtagc ccatatcctc ttttctctca acaccgggtc cccatcaatc ctcccaagct 180
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 agagcaaagg cagaaaactc tgccaaaaca ccaaccatat cacagctttt ctactttaa 300
 gactccaata acaattcctt cgttccggtt cattaaccgt tggatcgact cgaaaattgt 360
 actggaagtc tttagtacat aagcctacga tttgaccgtt gggatctact agcacacatc 420
 cagaactcat tgtacattac tctctccaca accagcg 457

<210> 291
 <211> 219
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 291

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 gattggtctt gaatgtttga aaagcatgta tgaaaatgat gaaactnttg gagaaatctt 120
 tagaaattgt gagaaatctt cagagnatgg tttctttaga catgaaggct ttcttttcan 180
 agaaaacaaa ttgtgtgtgc ctaaagtgtc tactagaaa 219

<210> 292
 <211> 544
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 292

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 cgcatgcaac ctttatgaac tcacgngnga naagcctcga actttgacac tcccgaacgcg 120
 tcacttatta gggtttggtt cgtggagcgt tttggcgacg atagagaggg cgtggaggcc 180
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 tcctctcgaa ctcatgggat cggatgaatg gtggcgtcgg gttanggttt tgagaacgga 480

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tgcn 544

<210> 293
<211> 480
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 293

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cttcaaaagc aataactccc taattgatct tttaagattc cctatcctaa atgagttttg 120
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tacatacatt ctatggttaa gtgaatttgg ctctaaaggc ctatagagtt atatatctac 240
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gacttatgat gacaaattaa tctctcattt ccagaatgat tcatgtcttt tggagagctt 420
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<210> 294
<211> 424
<212> DNA
<213> Glycine max

<400> 294

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gatagcctat gtggatcata acactataaa ggtgtgacca ggctttacag atttctactg 180
ttattatatt ctgtcttttg ctctgactct gataattatc aagatccttt ttcatatgtc 240
tccgcaccgc ttcacattct aattcattta cgtgtatatt tctttacact ttagaaacta 300
catccatcaa ccatgccctt aacgtctaaa tctgtgacct gtcacgac aagcagaagc 360
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gacg 424

<210> 295
 <211> 353
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 295

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 agcttcaagc caccttccat atgtgtgttc acgggattgc aatcaagcat attatatatc 180
 ttcaacactt cttttgtgta gctttcttgt gagacacaga taccattctc ccgttgttca 240
 cttncattcc caagtatatg acatgagtcc atatttgcac atcaattcac agacatgact 300
 cttgagtctc aacaatttgg tattgcgata aataggcatc cctaaacaat aat 353

<210> 296
 <211> 436
 <212> DNA
 <213> Glycine max

 <400> 296

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 ttgctttctc acttctactc ttttctttcc cttctttatt tttttcaact ttttcttttt 180
 cttcattttc ttttcttttc tctacctcta tttctttttc ttgggtggtt atttctttct 240
 tctcgaccgt tattgggtttt tcaactctct aactgtcac atctgttgcc tctcttttct 300
 ttttctcaat gccatccttt acaacaatat gtttctcaa agccacccta tctctatcct 360
 caactaccaa acgcttattt cttgtcatca caacattaca ttctctgtg ggattctctt 420
 ctgtgttcgc cccaag 436

<210> 297
 <211> 365
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 297

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 aaggcaccaa aagatgaaga aaacacatca atgggaagca aaaacatcaa ggatggaata 360
 cttacttggt ggagtgaatt gaaacaccaa aaatgaaagc aaaaggcaac caatagtggc 420
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<210> 300
 <211> 541
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
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 acacatattt catcttcttag ttggtgaatg catagtcact ttggaagatg ttgctcttca 180
 cctgagttta tgcgttgatg gaaaaccaat taatgaccta acatattatg attgggaaca 240
 aatgtgtgca aaatatatac gtgttgttcc cccaaagaat gcactagtgg gatcaaacact 300
 aaaactaana tgggtaaaag aaaacatgct gactctccca gcanaatcca cgcaacaata 360
 attagcacc cttgttaggc atacattnta ggaccaatta gacaagtcag gaaacanagt 420
 tcacctgatg tatctacctc tgtagcaaaa tcttgaacag gcaggatggg acaattgaga 480
 attgacatgt ttagcacatt tgtacagaga aatgtttatg acaatttatc catcatcaaa 540
 n 541

<210> 301
 <211> 221
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 301

gcctttcttc ttctgaaca cacatgggtca ttaattcatt gatagaccac ttatctttat 60
 gtgtcgtgta ggaaatctta aatggcccat attcatgccg aaggggtgttc agaattgaaat 120
 gcactangaa ggactcagac atatcaacct ctagtttctt aagtngagct gaaatatctc 180

gcattntcat gatgtactca cgcacacct tcacacttgt g

221

<210> 302
<211> 170
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 302

agcacaacta gtcctatgtc ttctctttga gagatanaga tactcataag agttgatgta 60

ctctactata catagttctc tcactgtgtn ggtcaacttg atgaactctc tcaagtgttt 120

cataggatct tcatgagcac caccactaaa tacgttgtct atagcatctg 170

<210> 303
<211> 256
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 303

gctcgaaaga gagttatgcn ctgtacactt anacagtgtt cagagtaata tattatgcca 60

nnaataagag aacatgacac ttggacccaa tgatgtccaa tntcacaaaa ctcaattaan 120

aggcttcana accataataa aacatgtcan atatatgcaa aatgaaacta taatgtatgc 180

tctaatatcc tctatcagag gacattcgat aggaacanaa tgaagtcctt tanacaatat 240

tcttattgat gatgat 256

<210> 304
<211> 260
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 304

catgtggact atgtggcggg cgggcatgg tgctcaacaa gttntccaca tccacaatgc 60

gcgcataaac ccaccatccc ctgatgccca cctccatctg agctcacgta ctaccacgta 120

gcccataatc ctggttgtct caacaccggg tgcccatcaa tctctgcaca gctccacaac 180

atccaagcga aacaacattc aaacagcaca agctatcaca gccaaagcaa acagagcaca 240

ggcagaaact ctgccaaaca 260

<210> 305
 <211> 523
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 305

 nccacgggna agttccccag nnantcantn anatnganan naancaaana naataagaga 60
 acaatgaaaa tggaagaatt gattcatggt tcctttgatg agtctaagt tatttgtcca 120
 agaaaggata ttttagatga tattgtagaa tctttagaac aaatgcacat tcatggacaa 180
 gattctaaag gaaaaggaga aggaagcaat gaagatcctc cagtagaagt caaagaaaat 240
 aatgatcttc caagagagt gaaagcttca agagatcatt cccttgacaa cattattggt 300
 aatatctcaa aagggataac aactagacac tctctcaaag atttatgcaa taacatgggt 360
 tttgtatcta taattgaacc taaaaattta aatgaagcca taatagatga aaattggata 420
 atagctatgc aggaagaact ataaccaatt gaaagaaata atggtntgga gttagttgag 480
 aaacctgaaa actaccaat cattggaaca aaatgggtgt tag 523

<210> 306
 <211> 468
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 306

 agactgagcg cttatcacia ggtctgtgct tagcggatag acaattgcaa aaaaaatttc 60
 taagtctttt tctgtctata tcttcacaca agcttaaaac cccttggtca ttactaaaca 120
 aactaaaatt aatcacaatc acaatcaaga tctcctaact acatgcaaga ggtaataatg 180
 aaaatagaaa agggaaagaa aagctaggtt gcctcccagt aagcgctctt ttaacgtcac 240
 tagcttgacg catcgctctg ttatccagga accaagagag ttctacttc aaggaccttc 300
 ttctcaggtc tcttttctc catcacatgc actntanaat aaacattntg gctaggtgga 360
 tcttggttct cctgaaacaa atcaaagctg atcttctgat cttctatgcc catccgcagt 420
 atcttttttc ccatgtncac cacacagctt gcagtagaca tgaatggn 468

<210> 307
 <211> 472
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 307

aagctccttc aactgcacaa ggctcttaat atttgaagag tatecttggtg gaaccttcac 60
 ccaacgaaga cactgacaaa aacttatctt ctccttcttg gacaaagtat ggcaggctgg 120
 gggcaagtaa attttcttcc catcagacct tggatgcaac tgtgatcgta taccatatac 180
 agctagatct atgtgtgtgg ctgtgtgtgt atggctgtgt gtgagtgtat ctgtgtatgt 240
 gtgagtgtgt gtgtgtgtgt gtgtggttgt gtgtgtgtgt gtgtgtgtgt gtgtggttgt 300
 gagtgtgtgt gttagtatga gtgtgagcgg ctgagtgtga gcatatgtgc atgaagcgag 360
 aaccatatct caacctctgt aattctatgt acatgcactc cccttcaact ttaatgcgca 420
 tctatcagca acctttcatt nctctccgta gaatgcttcg acaatccgcc cg 472

<210> 308
 <211> 475
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 308

cgattggtgc atcagtcctcg agaccctatn atcaaactga ggcggcgtct cactgagagg 60
 gcacgaccca gactgttctt attagagggtg gataccggac tcaccattac tataatctct 120
 acctgtgca tgcttggggg ctccagtaga tgccggtcat ccctgagct tatacgccta 180
 tggatatacca gatacggacc ctttatagca agagtgtctaa caaagcgtgc gatgcggata 240
 tacatgtaga tcgccctgat actgcctaata gggagcacgt tctggcctta tggataggaa 300
 agcgtgatgc cagctagtga cctcacgcac ttactagta gactttgtgg catgcatgtt 360
 agaccatcta cagtaggaac cccgcacgtg ggacctctc tggacatact ggacagcagc 420
 ggtcgactag attgcacgcc atccactgca gagaaggtat aaattatcat atcag 475

<210> 309
 <211> 511
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 309

gtgatgatgc atcattatct acgngaacat actcaagctt gctcggcacg aggtacttac 60
ccgttgaaga tcgatgaacg ttgattatcg aatgaagaac gttgaagaac ggttgatacc 120
tttgagagat tcctcaccga caacgttgcg gatacgcatt cgaatcgcgt gcgcttagat 180
tgacttgatg tggacaagta atgcgagcaa attggattga cacatagggtg cctaattgggc 240
tcaacgcctt aattcttgtc tttctaactt atatataaca aaacaaggga cgtgggttgac 300
gccagctcg cccaggcgag ctcaactcgc ccaggcgagc aggggttgctt cctccagaag 360
caaccgcctt ctggaggaat attccggagg gcccaagtgt gcctgggtgc tatttgcacc 420
cccatcttta ctaagaacac cacgctacgc tgttttcggg gagggctctat aatacagtac 480
cgtaacttac gatcgtctga agaaaggggg g . 511

<210> 310
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 310

agttgcacat ggatttttct canaacattc ttaccaaaga gtttttactc tttggtaatc 60
gattaccaga ttattgtaat cgattaccag tagcaaaatg gatttgaaaa agttttcaaa 120
ttgaatttac aatgttccaa ttaatttcaa aaagctgtaa tcgattacaa tgttttggta 180
atcgattacc agttcctttg aacgttgaca ttcaaattca aatgtgaaga gtcacatcct 240
ttcacataaa agccttgtgt aatcgattac actgatttgg taatcgatta tcaatgatta 300
tttctgaata aatcaaaaga tgtaactctt catattgttt tgatttttca catggattaa 360
gctctctaaa actatactct tcatatgggc gatngaccaa cttaatagtc atacattttc 420
t 421

<210> 311
<211> 234
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 311

acatcatcta ctattgttca tctgcttcca tgaatgaaga ttcattgatca tcacaggtac 60
cacaccacag gtacaanaat tgcagggtga gtntattata aaagaaataa tcaagcatta 120
gatgacaata attagcaagg aaactataac aataaccata atcatactta ataattcatc 180
agtttgacat acactanaca tctagtcac aactttcatc atttncaatc aatc 234

<210> 312

<211> 221

<212> DNA

<213> Glycine max

<400> 312

aacagttcaa tcacatgcc ataaccacat cctgtgcccc tcaactgagct agactcacga 60
ccattctgtt ttaaacggtc catatctcca agttccacat aaggatcaca taccagccag 120
tatacagcag caacaggcaa gaaaacttgt caaaaccaca aataagtttt actaagaaca 180
gtacattctc atcaatcgta ccgtgatcga tcaaattatg a 221

<210> 313

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 313

ctgagcaaat tcaaacgaca ataactntat aatcggatgt cctattgagt cccctaatat 60
atcaaactgc tccaaattga aaatggaagc tcgtagcata tttaaacgag aataactctt 120
tactcaaattg tgcgattgag tcacgtaata tatcgagacg ctctaaattg aaaacggaag 180
ctcatagcaa atgtaaaccg taataacttt taactcggat gtccgaatga gtctctgtgat 240
atattgagac gctcataatt gaaaacagat gctctgcgca tattctaaca acaataacct 300
tttactctgt tgtgcgaatg agtactggaa tattgngaga cctcgaatt gaacacaaag 360
ctcctaaaaa atcaaacaaa aacttttatt ttatgttcac tgaaccgtat tttcggacgc 420
tcacatggaa caaacttctt tattcaacgc agtcg 455

<210> 314

<211> 446

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 314

tcaaggaagc ttcttaagga agtttctcaa ggaagctacc tagtctataa atagaagcat 60
gtgtaacact tgtggtaact ttgatgaata agagtcttgt gagacacaac tcaaagttca 120
acttctctcc cctttttcct ccttcaattt tgtgctcccc cctctctctt tcttttcctc 180
cattgaagaa tcctctccaa gcttcttatt caaggcacat tcttggtggc gaagctcctt 240
cttccatggc tntttcccta gaggatggcg cctcttctcc tttgtcttcc actgcatctc 300
cgtggtggaa aatcaccatt gaaggacctc attgaagctc aaagatccag cctncataga 360
agttcacaag taagcttcat catattctct tangcacaac actgtggcag tatggactac 420
cagcgacaat gcatcaccat naaaat 446

<210> 315
<211> 482
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 315

ctgatgggtg cgagaagaga tcacatgttt gtcacatca aaaaggggga gaatgtgaat 60
gtatgtatac atgattttga tgatgtcaaa gaagaatcta acaaggctac ttcaaagat 120
aagcatttgc ttcaagaata attcaagatt gcttcaaaa acaaagcctt gtttcaagat 180
tcactaaaga ccaagccttg ccttataaca aagtgtttc aagacatgca aggctctggt 240
aatcgattac caggaagtgt aatcgattac ccgaagcagg gttgagaaat agctgttgaa 300
aaaggttttg aatttgaatt ttcaacatgt aatcgattac catatgtctg taatcgatta 360
ccagcaacga aactntggaa attcaaattc aaaagtcata acccttcaaa ttataactgt 420
gtagtcgatt acacacacat tgtaatcgat taccagtggg gagtttcaga aaatctgcc 480
cg 482

<210> 316
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 316

attaggttgt cagttctgca aagataacaa tgcagacgta gcataattac attatagtaa 60
aaaaattggt ttgcagacac ataccttgat tttaaatttt tgaacataaa cgatcataag 120
ctctagaaaa aatactcacc agtctccaaa aacatgggtg gcaatggcac atggtgagtg 180
gccttggcct ccaatgtaat ctaaattagg gaaataaatc aaattctacc aaaagtgtt 240
ttcaaatttc aaaatgtaga cttaaaaaac acaaattaac actatgtcat catcctccaa 300
caaaaacaaa cctgtgtttg cattctatga agtgaactat ttgtttaaat gattatgcat 360
gaagacatta nacacagttg taccattaaa tatgcaaact atgagaatnt canacaactc 420
anataccaag ccaactattt a 441

<210> 317
<211> 262
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 317

cattctagca gntccttatg atataagcta agtcaatgac cagccttang ttttcgtatg 60
agggtgagagc atcagatcca acttcccttg atctacacaa ggatgtgatt aaagctggga 120
agcctanacg agaagagtta gatngagcca tcatgggtcat ttgtctagag atcaaaccgc 180
caatgttcat gtccatcctt gtgattaagc catagaccga cctagctcta tcntgtgtca 240
natctgaaat gaaggatgta tg 262

<210> 318
<211> 537
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 318

ggtgactcca tncnnnatg aaacctctcg tagtaccgt gatectctag agacgacccc 60
gccgcatgca agctntgcgg atttgggtctt cgccagtga atgatcgaag tggatctgaa 120
aagaggcaaa tttaatcatc ctgcttagac gaatgagaaa actgnggcaa ataaagaggg 180

tgaggatgag ggagaaaccc atgctgtgac tgccattcct atacggccaa gtttcccacc 240
 aaaccaaca atgtcattac tcagtcaata acaaaccacc tccttaccca ccaccagtt 300
 atccacaaag gccatcccta aatcaaccac aaagcctgtc taccgcactt ccaatgacga 360
 agaccacctt tagcaaanac caaanaaaaa caccaaccaa gatatgaatt ttgcagcgaa 420
 nagcctgtag gattcacccc aaattccggt gtcatatgct aacttgctcc catatctact 480
 tgataacgca atggtagcca taacccctgc tagggttcct caaacacctc atttttg 537

<210> 319
 <211> 512
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 319

nggcgtgcta tgtcctgagn atcnacngat ntgaaaaacc aagctttatt ttgcttgatt 60
 ctctgcaatt ctctgcatcc ttgctcctcg aattgaacct tcaacctttg acattatatt 120
 ctcttcttct actatgaggg aaggtaactt ctttgtgtga gtgcttttgg ttttggtttt 180
 gacgtaagta ggaggaaggt tataggtaaa aaaaaaatta taattatatt ttaatcattc 240
 tgtagagaag aagttgttta ttaagagagt gggtagagaga ggtaattaa taatggagaa 300
 gttataactc cctcctttat ctaattgatt cacatgatat tttagaacaa acacaatatt 360
 tccatttgta ataaacattc ataaaattaa attcttcgat taattagcat gaatggtagc 420
 agtatgaaga attattatatt ntatcaatga ggcaagagat agttctaatt ttataaaaca 480
 agttaaatat gctnttagtc cataataaat tg 512

<210> 320
 <211> 533
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 320

tggacaagtt gacgcttgta aactggacca tagagncacc ctgcggcatg caagcttatc 60
 gctgacttat tatccacaaa aagcttcact ccactactct ccttgattnt taattcctat 120
 aataatgtgt ccaaccagac agcttggaac gcactcattg cagctgcaac atactcagct 180

tcacatgatg ataaagccac tatggattgc ttcttagaac tccatgatat tgggtgttgca 240
ccatacatga atatgtaacc tgtagtactc tttttgtcat ctctgtctcc tccccgatcc 300
gcatcagtat atcccactaa ttcttctgag ttgggtgttggt ctttatttgg aaatagaatt 360
ccagtattga tgggttccttt tatgaacctt agaatcctct tagcagctag gagatgagga 420
attctgggtc ttttcgtata tctacttacc agtccaacaa caaattccaa atcaggtctt 480
gaatgataca agtacctgat gagagaacca acaatctggt tgaactcagt ttn 533

<210> 321
<211> 301
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 321

agagacatga aagaccggat gagntttact gtgagatgga agatctaact tataagcaac 60
aacaccacc ttatntaaca cctggaaagg accataaaat cgangggaga gnttttcatt 120
aatcctnta gccaggatc ttctcttgta ggggtgcatct tcaagaacac ccaatcaccg 180
actgtgtatt ctatgtcctg acgaacgttt gtggcattng ctcgcatgat atcttgagac 240
ttcaacanga tttctcttat agtagccaat aattaatcta agcaannttg tagttattga 300
c 301

<210> 322
<211> 450
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 322

attatcatga aaccacccta naccaagaga acagagtaga ggcagaaaac tctgccaag 60
actcattcaa attccacagt tttccctact caaatacccc agtaacattc tcttagttcc 120
gattcgtaa ccattggatc accttgaaac gtttactgga ggttcctagt acataaatct 180
acattttgac cgttgggatc tactagaaaa tatctagaac acgagatata ctacctttcc 240
cgtgactggg gctgcacaag cattttttct gcacatttgg tcaagtttgc tgcacaattt 300
gacagctttt gctgcacaat ttggcagatt tcanaatcca actttcccac antccaattt 360

actcannatg gatcctanaa ttcctaaatc atgtataaat catanttaaa ccanaaacia 420
acttcagacc aaggcanatc anaatatagc 450

<210> 323
<211> 362
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 323

ctcagtatgt tccttgggta gataattaat aattaactta gatacaattc acaattgtat 60
ataancatta natatgttat aattaaagaa ataactacct ctcttgccca cactttggct 120
accacatgat taacatatga tgtcaacact aatgtatctt ggggccacc tggaaaaccc 180
tatgaatcaa cacctacatc ctttgaatt ggatcatgan ngttctcatg agtctcatca 240
gcagcatcat cgatatgccc attatcctcg acaatagggtg cagttgttca ttatctacgt 300
gtcgacactt tcaatcttcg acgctgangg gcttcttctc gtcaccacta acctctctac 360
ct 362

<210> 324
<211> 531
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 324

tgatgaatca tctcganctt gagatcctta gagacaccct gcggcatgca agctntgacc 60
gcactttaac aatatctttt gttctattnt tgtgttgttn ttaatcaatg tctttaagtg 120
catcttaaca atgtcttttg gatagggatg acaaaataga cactaatttt gtgggtatct 180
ataaaagtat ttgcaaatag gaaggataat tatctgctta ttgggactag agatggggcg 240
gngatactat agtaccatct caccctccc cgcacatgta tgatcatatat tttatatatt 300
aatgtaatta aaaaataatt ataatttctt aattttatga ctagcaataa caatctaaca 360
aagaataaag aatcctaatt caacattgtt atattaaatt tgcttcacat tctacataag 420
aatatcgaac tactatcttac tgtttatgta taaagtaatg actctgctaa caagttatta 480
taagattgac ttgtgaaatg gtattctgtg ttgttcgatg cttcaaacta g 531

<210> 325
 <211> 470
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 325

atttcaatgc ggaaagtatt atgtttcttca ctatccatgt tcacacatta ttgctgcttg 60
 tgggttacgtg aacatgaatt acttccaata tgtagatgtt gtttacacaa atgagcacat 120
 cctanaagct tattccgcgc aatggtggcc tcttgngaatt gaagcgagta ttctctcttc 180
 tgatgagcaa tggacactta tccctgatcc aagtacaatt cgtgcgaaag gtcggccaaa 240
 atcaacaagg ataatgaatg agatggattg gctggaccat ctgacaccga caanatgtnt 300
 agatgtgaag agaagaccac agacgtgatg tcaatgaatc tgatgtggaa gttgtaataa 360
 tgattatgta tttgttgtca cttaatgaat gacctatcat gacagctgtt ttaaatagta 420
 tatatattat ggcggcctaa ctgacaatgg taatatatac ataatgatat 470

<210> 326
 <211> 315
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 326

ctgcagctag ctgctggcag ctggtggaag ctccttctct atttnnncta taatagggga 60
 ggagtgaagg agagaaatgt tcagaccttc tgggtatttcg agatcacttg aaattagtga 120
 aaaanactgt ctccgtgaag aaaatacaag ccgacgcgct ttcgtaacgt ttcgtgggga 180
 tttcgcaag aatttaccta tntcttcgac gtcttcgttc gttcttcggt cttcaaccgc 240
 gtaagttctc gaaatcgaag ctttcaattc attctatgta cccttagtgg tcttcatttg 300
 tttcacgtgc tttat 315

<210> 327
 <211> 352
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 327

ctctctctnn tcgaattgtt gaggaagatt atttccgtga agaanatcca agccgagggc 60
 gcttcgtaac gtttccgtga gtaattacgc gaattattctc gaccgttctt canagattca 120
 tcgttcgttc ttcgttttct tcagtcttca acgggtaagt acctcanaca aagctnttca 180
 attcactcta tgtaccctgt gnggtccaca ttntgggtca tggagtttta ttctcattnt 240
 catttactnt tntatacccc ttttgacgtg ctttaagccat ntatttaagt catttctcgc 300
 ttaatctacn aaataaaaata aatttccacc gatcggttga atcgcatatc cg 352

<210> 328
 <211> 514
 <212> DNA
 <213> Glycine max

<400> 328

ctttgactgc tgcactctgc acccttagag acgaatcgag gcatgcaagc ttagcaccac 60
 tatcgcgctt agcgcgagta aatggatttg gacttggcgc caatggttga ctgagcctag 120
 caagagatgg acgactcgtt tagcgagctg atctcgcgct tagggcgctg cttcgattca 180
 ggtgctcttc cagattcctt tttcacgcta agtgcactga agccgtgctt agtgacggat 240
 acgcactaag tccactgagt tcgcttagtg cgacaccag cttccgactt gaagacatca 300
 gtaacttatt atcttagctc ggccaaagtc tacctctctt catctcacag aggccccacg 360
 catcgtacta gcaccgctgc ctgttattcg tacaagtagc tgacaactat acacaggtac 420
 ccttcatcta tcgcatctac ctcaacgcaa gcatcagcta ctgtacgtat cgtctcatct 480
 ccgcatectc tcgcgcactg ccacgagacg tccg 514

<210> 329
 <211> 341
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 329

tctacacctg ttgcaagagt ctgtggtcta tgttcttcta cagatcacca tacagatctc 60
 ggtccttctt tgtagcaatc tggagtcaat gagcaacctg aagcttatgc tgcatacatt 120
 tataatagac ctctcagca gcaaaaacaa caacagaaaa ataattatga cttttcaagc 180

aatagataca atctaggttg gaggaatcat ccaaactctga gatggacaag tccttcacaa 240
 caacaacagc ttatcgcttc tttctagaat gctgctggtc caagcaagcc atatgtntct 300
 tctncaatac agcaacaaca gtcacaaana agacaacaag c 341

<210> 330
 <211> 450
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 330

atgtatccaa aacccctcaa tttaatggat tttcaagttt tgagaagtga aattgggaat 60
 gggataaatt tggagcaaac tctcacctca cacaagtcta taacatcaat ttaaacttga 120
 tcaaactgga tttacaccta aaatttcact gaatcagaat gtgactactc aacccccaat 180
 tttaccctag aaatggctct ttgttcagtt aggtcatttg tttttctctt tagcacagcc 240
 cagactttct cataagtcct atatgacatt gcaagctagg attaactgac tgtaacctcc 300
 acataccact aaatccagat ttggccttcc aactatanaa cattcactct ttttacactc 360
 ataacaccat aatctcacct tctaaccctt ggtaattct acacttcac ctaaacagat 420
 ctccataagc aagttcagca cacatacatn 450

<210> 331
 <211> 471
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 331

cgtcagagtt tanggattga gcttggttca actgagtgtc catctgcccc atctgattgg 60
 tcaaactctg aatggaggct cttgtctctt gctgaaactg catattttgt attgtcattt 120
 gccttactaa ctctcttaag gaaggttgag aaggggcctc agttgattgt tgtctctggt 180
 gttgttgctg ttgatgctat tggttggtgt gcattggagg aggaatgtat ggcttgcttg 240
 gaccagcaac attttggaag gaaggagcag gttgttggtg ctgttggtga gggctagacc 300
 atatgagatt aggggtgattc ctccatccga gattgcattt gttgctagag aggtcataat 360
 tgttctgcta tggctgattc tgctgctgag gatgaggag tctattgtaa atgtttgcag 420

catatagctt angctgctca attgctccag attgctgcat agaanggcac g

471

<210> 332
<211> 446
<212> DNA
<213> Glycine max

<400> 332

gtttccgttg ttcaatttcg agcgtgtaga tgagttatgt ccccgaaatcg gacatctgtg 60
tgaaaagtta tgaccattcg attttctcga gagcttccgt tgttcaattt cgagcgtctc 120
gatataattat gaccccgaaat cggacatctg tgtgaaaacg tatgaccatt cgattttctc 180
gagagcttcc gttgatcaat ttcgagcgtc tagatgagtt atgtccccga atcgaacatt 240
cgagtgaaaa cttatgacca ttcgaatttc tcgagagctt ccgttggttca atttcgagcg 300
tctcgatata taatgtcccc gaatcggaca tccgagcgaa atgttatgac cattcgatct 360
tctcgagagc ttccgttgtc aatttcgagc gtctcgatat attatgtccg cgactcggac 420
atccgtgtga aaacttatga ccattg 446

<210> 333
<211> 400
<212> DNA
<213> Glycine max

<400> 333

gagtgattca agaacaccct gtctgtatca tatgacattc acaacctttg cgtgttgccc 60
tcgctggaaa gagcgagtct ttccttccct tcatctatac ccgttgatct ttcaaaccac 120
aagtcagaa gatacacctc tgcccagaat tatatcgtgg ccataactcc cattctacgc 180
actcacatta agtgattctt gagcctatac tgaatttcac aacgagttct ttcacctcag 240
tatggaacac ctcatggag ccttagctca gtatgtcatt ctaattttgt caccacactt 300
actagtttac atccattatc atttatgcaa gaccacttat agacacgaat acactattca 360
ccttctataa tccctttcat agttatcaac atctagcact 400

<210> 334
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 334

tatacaatgt tntcatgata aaagcctctg ttgaccatcg gaacaagatt tccaaagggg 60
gcctctggaa atgcagtcct tgcattcatg aacctgaact gtgagatgaa gatcgaagat 120
caaagatcgg atgggttcctg tctcgaatac ttaatttaaa ttagattggg ggagataaaa 180
tataattggg ctgatcttca tacaatgggt gcgattagcc aaatgcctga atatgggaaa 240
attccctgac tgccgtgaat cccaatccct ctaattaaat aagctttaga atgcagcact 300
gaactaaaaa atttcttgcy tcatttatat acaatctagt aagtaatgca ccaaagttcc 360
aatttttgca tcanaggaca gagctgatag cacataaact aaatggcata aaaatacaac 420
caaatcttat cactgagttc tatcaatgga ggaggcg 457

<210> 335
<211> 260
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 335

ctatcttaaa gtaagctcta tgaaatttat aaatcgatat ttatatttct aacacgatct 60
tccttacaac tgataaagac aaagagaaca aattcaatta taaaataaag gataaaggaa 120
aaaactcttg acccacacac acaaaagaga cgtattatag taaaaaatat ttaaggcatg 180
aaggataagc aagagtggnt ntaatttata attctgacgt tctccttgta attcccattc 240
ataattttct tctgtacttg 260

<210> 336
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 336

tccttcaa at aacttgcaaa ttatgggttct agaattctat aattttctat aggtttcagt 60
ctgctagcta gttattagac tggttgattc tgaatagggt ttatcccaga tttattgtat 120
tttttgtttc taggtaatgt ccagtcatgc ttctttaaaa tctaattatt tgaaaccaca 180
aaatttagag cctgcacttt ttaatgtggt tatgaaattc ttcgttttta gctattcatt 240

atccttgcaa tctcttattt cacatggtag tacaattcan attaacttca gattttgggt 300
 ttattttgat gtttgccttc gaagcagtct ggaattttcg gtcctttag acgggttcgg 360
 ntaatccttt cttatnggtt tgtctgtact ttgttagaag cactcaagac tagtgtggac 420
 gcttcagtcg ttcccacatt tgagag 446

<210> 337
 <211> 255
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 337

gatctgtgct tgcaactgct ntaagtagtt aatcatctca tctaacattg aagctntatc 60
 tgtctgcaat ttgccaagt aatccaccac gtacaggaat aatcaatcca catatataga 120
 acnntgattg tgcattngat tntggatnga atatgnttnt aactatgtaa ttnttgataa 180
 aaatgaaatg atattagtct ccgattctaa ctttaatacaa tttaatcctt annatttaaa 240
 agactgttnt cgtca 255

<210> 338
 <211> 441
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 338

ganaactacc aaaactaccc atcatatctc ccaaaacccc ataccacga aattttaagag 60
 agaaagaagt ccacccaaac ctgaaatttc gaagtccac tcgtagccac gcacttcacg 120
 actccaaaaa tgccctcctt tcgcgatttg gagcagaaat gagcaccaaa gggtgaagct 180
 ttgtttggag cttcaatgga gaatgagga gaaagaaagg caacgtgagg aagagagaga 240
 gctgtctgaa aaaagtgtgg gggctgagtg aagagagaga anagctttnt gggtataaaa 300
 taaaagggtt ttctcttttt ctattattnt attcanactc tgccacgtgt ccctaattga 360
 gtggagcana agggcccaact ttctctttta ctgtgacca cactcagcca canaagtgag 420
 aanaatctga cctttganac t 441

1. *Chrysomelidae* (Colorado potato beetle)
 2. *Chrysomelidae* (Colorado potato beetle)
 3. *Chrysomelidae* (Colorado potato beetle)
 4. *Chrysomelidae* (Colorado potato beetle)
 5. *Chrysomelidae* (Colorado potato beetle)
 6. *Chrysomelidae* (Colorado potato beetle)
 7. *Chrysomelidae* (Colorado potato beetle)
 8. *Chrysomelidae* (Colorado potato beetle)
 9. *Chrysomelidae* (Colorado potato beetle)
 10. *Chrysomelidae* (Colorado potato beetle)

[illegible]

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<223> unsure at all n locations
 <400> 341

ttctacagaa tccgtanagt ttcgtgaggt ttcggaagga aaacaaccaa acaacacaaa 60
 aattggggggg ggggggtgaac ttatcaagct aggagtgtaa atagcaattt tcaaattcttg 120
 gcagaggatt ctggaccttt tctttcttcc tggctaagca acttgggcga gcagggtggc 180
 aagcacctcc ctcattttgt tgaaaaatgg cttccggcgc ttccgtagaa ttcccgtaac 240
 cataaataag tatatttcac ttaatatggg tgagaaggaa gaaaaaaaaa gaagaaaatc 300
 aagtccgata tgcttccgta actttttcgt aaattacgaa gaaggggggt gaacttatca 360
 agtgcgaggt gtaaatagaa atttttgaac tttcgaatct cggcccttcc agaacattat 420
 ggaagctcgg gttgcttagg agggagcagc ctacctcgct tgggcc 466

<210> 342
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 342

cataacattt ctaagtgata aagttttctt cttgacttct ctttgggttc tgetcatggt 60
 ttcttttaca agtctagttc taggctgata tgcagtggag ttggaaatct ttattccagt 120
 aatgaccttg ggtatttttt ctgttttctt tcttactttg nttgtgagga tatcttattc 180
 tcctctatac tggacacact tcctttctct cttcattaaa ctttcttctt tatagagatc 240
 tgaacttggt gaatttgtgt ccagggtttg caacagttgc agtctatgac tctgatgacc 300
 aatctcataa ttttctttgt gtttctcttt tggattttct caattacaca tcgcgttggt 360
 atactctggt gattttaatc ccttctatac tagttgntca ttgtgcttaa tatagcttct 420
 tctattttta tctcatgcag cttg 444

<210> 343
 <211> 488
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 343

atctccttct tcactacatc aagaatcacc gngttgagtc ttctctgtgg ctgtcttact 60
 gggtagctc catcttctan atntattcga tgcatacatg tggatgggct aataccagga 120
 atgtccgcca ggggccagcc tatagccttc ttatgcttct tgagaactga caacaacttc 180
 tcctcttgct catcagcaag ggaggcagat ataactactg gagaactctt gctatcatcc 240
 aagtaagcgt attntaaatn tgatggcaga ggcttcaatt ctgggtgtggc cggctggaca 300
 gtggtagaag gagatgggtt ctcagccttt acctcataaa gaaagtcaga ggtatgtgta 360
 cttctgaaa catgggttagt cctatctgac tctatnaaat caatctcaag aggtanaaca 420
 ccaccaccag gcatgcantc aatatcactc tcagaatcac tctcagcatc anattcagac 480
 atatgac 488

<210> 344
 <211> 532
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 344

ntttaatccc tcagtgcctg agctccttaa gaaacccac gcatgcaagc ttcacgggtga 60
 atctacagtg attcanagat gttntgatga taacaatgat gataacaaaa gatgatgaca 120
 aagggtgatg caaaaagctc aaagggtcaat taaaggatga gttcaagatg ttcaagaagg 180
 aatcaagaac aattcaagac tcaagacgaa aagggtgaag gacacttcaa gattcaagag 240
 gaaagttgaa ttcaaaaatc aagattcaag gatcaagatt taagaatcaa gatcaagatt 300
 caagattcaa ggttcaagaa ctcaagagaa gacttaatca agataagtat ganaagggtt 360
 tttcaaaaac tgagtagcac atggattntt cacanaacat gtttagcana gagttnttac 420
 tctctggtaa tcgattacca gattgctgta atcgattact agtagcaaaa tgttnttgaa 480
 gttntcanat tgaatntaca acgttcatt taatttcana aagctgtaat cg 532

<210> 345
 <211> 290
 <212> DNA
 <213> Glycine max
 <400> 345

catttgctg cttatttctg tatgggtatga gatgaaatgc aaagggttacg acttgtgtta 60

gtcgggttata atggaatgag cctaaacact tgagcttgag tgaaacgacg actgtgagggc 120
 tgtgggttgag gatccttcct tgatatctgt cattctcact agcttatttc aattatgact 180
 ctaatgcata tctttctatc tttgaaaagt tgcattgtatg tgagaagcaa ttgattgaag 240
 cattccatga tattcatttc atatgattga atttttctgt aaacaaacac 290

<210> 346
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 346

tatcacatat atatatatgt tatgcgtaca acatatatca ttacgcaatg acatttgagt 60
 ataataaaaa atagttctgc agggcctaac atttcagtgc ttatattaat ttaggtacca 120
 cttaacattt attattgagt caactctcta acgnatattc ataatttctc tttgtaatat 180
 taatttaatt ggntaaagaa acatatttct tatggataat aatggctttc agnttcttag 240
 tgaaccacat ctgannaata tacttgacaa gaaatgtgtt actatgtcat agntaatctt 300
 tttttctttt aaatacatca tctcttatgg acgatttttag actcggagga cttattatat 360
 ggacatacac ttatata 377

<210> 347
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 347

cacacatgta gtgaacatct atgataacct gcttcgtgta agcattgtgt tagctataat 60
 ntatgaagaa ccacttctag ttctataatt gtacaacata ttagcatatg ccanactatg 120
 tgtatcattt ggatcaccag aataagaata ttacctcaat aaaatctcct tttggcatta 180
 gtgctctgca tgcattctcta ntcctttggt atggatgat taaactagt atgcaaataa 240
 caccagcatc tgcaaagaag ttagccacct cacctgaana tntaaatcgt gatgtctaan 300
 tattaataaa acaataaaat ataatcggaa gatatcaggg anagcattta gaaagcaaca 360
 taagaaaaaa cagaataact caccaatcct tctaatt 396

<210> 348
 <211> 225
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 348

tagttacctt cttatgccta gccctatana tactcanaaa ctcttaattn taggagaatt 60
 ttgtagaatt gaaattaagn tgtgcttaga gagagcatta gcctcttctt tggtnnttgac 120
 tagaaaccaa atggattctt ctcaaagaag ctattccttt atggcaaadc ctcctactcg 180
 gtatcgattc ttcattggatt gtggcatcgn tctgtcatct tctca 225

<210> 349
 <211> 203
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 349

acgttatcta tagaacattt ccattggatg taatggatga aattgtgcat ctttaggtga 60
 gaaagaggct atgttttgaa ttgcanaatg tagcagttgg gctaaacgca tatccaccgg 120
 taagcgcaat ttcagcgtgc ttagtgcana ggagaatctg ggagagcatc aacatcaaag 180
 ccgcgcgcta agagtgggat tag 203

<210> 350
 <211> 455
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 350

gacctaaatg aagactaaac atgcattgtt tatgtaattg tattcattat gcgatataat 60
 ttgttgtaag ccattaataa ccaattaata ttattaagta ctggttttgt taagcaaaaa 120
 aattgttggc ccaacaaaaa tcatttacgc gtgtaggata catcattgtc ataattgaca 180
 acacataatg acatgcatgc gtattaaagt ttgagcgcga caccacattg actaacttga 240
 ctacacattc tgaaggaaac ataaacacga aacatgttca tgcgtgtcta atttttttga 300

aacaaagaga agcaatctgt ctgtgacaac catgtatata tatagcagac acaactaata 360
aatcacacat tatcttgctn tcacatagtc tcccaatgga tacacanagt atgaaatttg 420
tagagaaact agcagtcaga tgattgcaac tcacg 455

<210> 351
<211> 483
<212> DNA
<213> Glycine max

<400> 351

atgttagtct gctcacatca aagagatata ttgtcttctc tctcagatat atttgatcct 60
aatcttatcg ttttcttata tgcgaactca tcagctgtaa cattcttata ttatctacac 120
acttgagggt atatttatag taattaatac aacttatatc ttatctttga ttaacctgtg 180
cagattgtta agctttcgag aattaaaaaa agaattagac tcttgaggat cctgaattaa 240
acgtgaacaa gtatatatag gagcaagttt atccattgta atcattagat tagaaataaa 300
aactacttgt ttgtgataga aataaatatt tatagttaac ccacaatgaa tttcgggaata 360
ttattattga taattttata gtgcaaaggt atttacatta tatacactta ggctcataat 420
tgtttgccca gaataaagca acaaactatt ccaactataa agggaaataa gtcagaaata 480
aat 483

<210> 352
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 352

tagcattaaa tgcacatcct tcttgatgca acaaaattac tctgattggc ttttgtgtag 60
aatacttcag tataaaacca cttttccttg gtcaaagcat gtttttcaca tctgaatgcg 120
tcttttgatg ttgttttaac aattttttta ctttagtttc atttattatt cataggattc 180
gacaaatcat atgagaatgt ctctccaaca tgaatctcag acacagaaaa ataaatatag 240
agcgaaatat cattttttta tggtgtatca ggcatgact tggctctatc ttcattctaat 300
acttttgacg catgatgtat acaacatgat ctgatatcgc ataagatata actattcacc 360
ctcgtattta tgtgcatcga ataagaacaa ttatgagtat tgatttatct tatgacataa 420

atgtcnttat cttaacatag atgaaatg

448

<210> 353
<211> 277
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 353

cctggagata tgtncgcggg gtcaggagaa ccttgggacg tcaagtggng tgctatngcc 60
canaaccaag cttgaccaat cccgacccaa cccgcgcata gtcggtcagt gagaacctgt 120
gatgtaccta agcaggcgag ctcttggcag tcaacagata anaggaaaac aagaccacan 180
agcaaggagg cttgtggtgg ctggccagct gtgaattttg tgtaatatgt ggattgtggc 240
ctctggaat cgattaccaa gggtagtaa tcgatta 277

<210> 354
<211> 302
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 354

cggtgatact gggtttctaga agtgggtcca gccattcca tgnnttcaca tttaaagaaa 60
agggagaaac aaccaacctt atgtactcct tgctaattgt gggttnttta acaatgtcac 120
acaacctcaa gaatctctc anatgcatca caagaagctc tgnntgaact ggtactntta 180
atcatctgga ggaacccatg tgtgaactca naagtaactc ctcgaggaag tgggtgtagt 240
tcaatgggtg tggtttctcc caccagatgg gtgacataat acagcaatgt cagtgtagca 300
tc 302

<210> 355
<211> 436
<212> DNA
<213> Glycine max

<400> 355

agatgaacaa ccaaatgaaa catgacagtg aagaataaag gaggaaatat catttccatg 60
tggtataaag tgagaacaac ttgattttgt aattagccta aggtcttaac ttccaataat 120

taagccacct atattctatt ctgaatgact actactcacc aattatctgt acgccccccc 180
 ctcccatccg ttcacggata gcacacttgc gtgattcggt gttatatttt actcagcggt 240
 cctccgcgca cccctcacgt atgcatactt gatacccttc ggatcgtctt atacaccctc 300
 cgtccttgcc tctccgtctg actctttcta ccgactatgt atcgtgatga ctcgtattcc 360
 gcgcggttct cgctcacgag ccactctgct atctttgagt ctcttatctt acttagctct 420
 acgtctttat agctct 436

<210> 356
 <211> 350
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 356

cttctagttt cactgatact tgtttactat tactggacaa catatctagt tctatgtctn 60
 tcannattgn ttattaaaaa gctttcattt gtganaaagt tattatcttt gattaatgca 120
 ctattcaacc cttcattcta gtgtgatnnt tggatattca tcatctattt taaaatcgag 180
 acatttgatc attctaattt aaaaattctg caatcttggg ctcctattt cataatacaa 240
 acatntgggc tccatatnta agagaatctg caattctggg ccctatattn tagaaaaatcc 300
 tcaatcttgg cttaatcttt aattgtgtct acattcttat ttcttacttt 350

<210> 357
 <211> 505
 <212> DNA
 <213> Glycine max
 <400> 357

cttgaacccc atctagtacc cgggacctc taagccacct gaggcacgca agcttgaaca 60
 ttctctcatt tgattaagat attattactc tacattttta gactgagact tatgagaaaa 120
 aacacaaaag ctggtgggct agactattag cctaggacaa gataaggctt gaagggggcc 180
 aagttttatt tgctcaatcg aaaatgcgaa ctaacaccaa tccaatccgg ttatacttat 240
 tatgtcaatg aaatcactat taaatcatct aaagtcaatg agatatcgta tgaattgttg 300
 ctattaacta acacatacac caaagactag aacaacgaat tgatttagca tcgaatatga 360

agagtgagga gcaccaacaa cattggcagt gtggcataat tttctgcaga cgcagcatcc 420
 accattcgtg tctttcgttt gatggtacat tgctgatgac gccccagag aaaagaaagg 480
 attggattga atgaccatca ttgct 505

<210> 358
 <211> 460
 <212> DNA
 <213> Glycine max

<400> 358

caacacctat tacaactctt aatgcatgct ttcttggtgc atttaagcta tcacccccaa 60
 caaatttgct taaaccatat gaattcaaac tcgtggtgag ttaaccctct tttggaccat 120
 caacgttgac ctcaaccata tgtctctttg ttcttacatt agtgagtggg aattgatttg 180
 ctgaattttc attaatgaca ccaatgatgc atctgagttg ggttattgat tgtgatcaaa 240
 ctctggtgaa tactgattga tgtaagcttt tgagttaatt aaggtctaag gtcaatcttc 300
 taatgatttt gagctctcca acaataccaa acaaccgtga aaagtgggtg ggtacctata 360
 aaagatagag gcaaccctat gaggggggag gtgggtgatc ccttttcttt attttctggc 420
 gtttccttgc gcttctgttt ctcttactct cgtgttctcg 460

<210> 359
 <211> 254
 <212> DNA
 <213> Glycine max

<400> 359

tagcataata tacaaaccta ggaaacacag attcagtatg ggatacatat atgatatgac 60
 atgacaagaa acagacaata tggcacattt tagaagttat acagatatga tatgtatctt 120
 aattctaaca tggctacatg acatgaccac tggtttcaag tgtatgtact tcttatttaa 180
 gaattatgag aggggaaggtg tttatcacag atatgtggca ctatcagata tacaaaagta 240
 atgagctatc aatc 254

<210> 360
 <211> 114
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 360

gccttgctct tctctactct ctatagtgtg gtcatagatn tatcatntaa cgcataatat 60
atagagaaat ctaactctgg gttctgatat ctgaatcgaa tgctgacatt actc 114

<210> 361
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 361

caagttgtn tgataatgac aaagatgatg acaaaaagcc caaagaatga tttcaagaat 60
gagtcaacaa gttcaagatc aagtttaatt tcaagtttca tgagaagaaa tcaagaagat 120
tcaagaatca agagaagatt gatttcaaga atcaagagaa gattgatttc aagattcaag 180
agaagatgaa ttcaagattc aagagaagaa atcaagaaga cttcacaagg gaagtattga 240
aaagatTTTT ccaaaaacaa catagcacag ttttgTTTT caaaagagtt tttctcanaa 300
natttctaag ttaccagagt ttttactctc tagtaatcga ttaccagttt cctgtaatcg 360
attaccagtg gcaaagtttg gatttcaaag tntttaactg gaattgcaac gttccaattg 420
attncaaaat ggtgtatatc aacacaagat attggn 456

<210> 362
<211> 442
<212> DNA
<213> Glycine max

<400> 362

taattgttta attcttactt cttaaatgta cgttatatac ttgttatagg aacctataa 60
ttctaagtat atatagttgt agtatgggtc tctgccttaa ttgcataggt agtatgggtg 120
tttgtgattt cttgttcata gtgatgctaa tactctatag ctggatgact catatcaagt 180
tatatttcat aaggaatact cttttgatcg taccttctaa ttctagtgc acctatcttt 240
ttttgtgttg cgtgcttaag tcaaataaat ctgattcact tgaaagcctg agtataatta 300
attctgtgtg ctatgagact acatcacaca atgggactac ttgatgcttc tatcacaatc 360
aagtgattgc tcatgtctta tacgatccac cttgcggtca tgtcttgctc tcgacttcac 420

gcaatctgct gttatctcaa cg

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<210> 363
<211> 358
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 363

gtatgtgtat gcagaagatg ataggatgaa gctaacttac aataattcca tgtgtcctc 60
tatagtaact gcttgnata gtctgaatc gctcctgtcc agctgtatcc cactaaacaa 120
aacacaacan atgaatccaa gcttggcatg catgtggcaa taatcatgaa tatgatcaag 180
tgaaatgatg atntcgctnt gattctcatt acccaacacc gacagaggtg aatgcagaaa 240
ttatggtaaa ttacaccana caaactanaa acacaataat atagaatcgg ggcattatan 300
atgaagtagt cgggtaaaga cattgattcg tgtcagtga ggtgtgatact cacaatct 358

<210> 364
<211> 529
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 364

tgcttgaatc atcgaancct ggatcctctg agtcacctgc ggcacgcaag ctctcctcta 60
ttgttgatag agtgtgacat ctatgacct catagtctcg tgctgtgctc agtgtacggt 120
tagattttgc gcttaagaaa caactgcagc atttgcagct gatatttcta tcttctctct 180
gcatttttct tacttgaagg acattaacaa aagccagttt tttttgtat ttttcacaca 240
tttttgtttt ggtatttgac atttttgtcg cattaattaa ttatattata ttaacataca 300
attagagcat gagagatgga atctattaac agtttcaaaa ttttagtttg agcctgacag 360
caccaaaaag acagaaattg caaatgaaa acagtgctaa tattttcttt tcttttttgc 420
acgagacata tagttgaatt ggcagtatat ttgcagagaa tatctaaata cagctaaact 480
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<210> 365
<211> 376
<212> DNA

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<400> 365

<210> 366

<211> 435

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 366

taactgtctt	tgggcttggc	ggccatgctc	aacaaagtac	tttcgacacc	tactgtacgt	60
tgatttcacc	aatgctgata	tgggaatgct	gctataatct	ctatcaaata	ttatcgatcc	120
atgtagatag	atattattcc	tgggtcaacca	acgctaaaaa	ttactgtcta	attaatcctt	180
gctccttcta	ctattgctag	tttcaccata	cttttccgta	aacttaatcg	atgtatatgt	240
ttcgcgctgt	catagctgan	tcacagccta	agtcacgtat	agacaatcta	agatgcatgg	300
atgatagccc	tccacaagat	aacgatgact	atgcttatgt	ttacctactt	atcttgaatc	360
taatcgaatg	gtgaatgact	actatacatt	ctatagttac	ctcaaattaa	cggcaagctc	420
gtctgcagac	taacc					435

<210> 367

<211> 468

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 367

ttgagaatca atttgttggc tcagtgtgtg attttcgtac aagccattct tttgttcttt 60

atgttaaagc ttgcattctc aacgttntga aaggaagatt ctgtttttat ttctttttct 120
 tttcccttac gatcttatgc ttctcttgac tctgcatgct nttaactntn ntcttttttac 180
 tatatactga tgactgtact ttcaatagta ttattaaagg gtaatttctt ccaattaccc 240
 ttattaatgg ttaccttcca tctcaggatc aggaanttaa ttaataacat gtttcattcc 300
 cacttaatta gcanagntnt ctgaattaac anaaggtana agggactatg tttctttttg 360
 tctctcttta cacataagag agtatcctgg tcaataactca actcacgtaa taaagttctt 420
 attgaataac ctatgacacc ctataatagc tttatttaga tatctaca 468

<210> 368
 <211> 351
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 368

tgctccctctc aagagattnt ngattgattt ctagttggta agcaccatc ctcttctcct 60
 atgggtccctt gagtttattt tcttctccca ccaagtagac atganatggn gtttcacttc 120
 anattatgat tggtaggtga aaatataatt ganatgagcc tgagtcacac caattcatta 180
 naatgaaagg gaattgctat ttgcactcct cctttataat aatacaatcc ctatttattt 240
 atatttttcc aaaatatccc taanaataca ttccaatgt tcaactccttg caatnntctt 300
 tcgtcanatc cctactgtga gtgcgagcaa agagcaacaa tacaccatca a 351

<210> 369
 <211> 334
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 369

tagaattcaa ggcctgttaa tccacacaca tgcgtcaagt tccatccttc ttnttcacga 60
 gtaacactgc ggaggagaat gggcttcgac tgtgttgcat tacactggaa tngagtaatt 120
 ccataactgt cgttcaattt ccgacttctg gaagtatgga tatttgtang gtctaacata 180
 tngttingcct tcaaaacaaa ttatctgctg attaaccaga aatgagaaac gagcaactca 240
 ttatatatag ggaaataacg ttctgaagat gattcaatta tgaaaaaagg acagattaac 300

cgcatactat tttacctctc tcttcttctt tgtg

334

<210> 370
<211> 215
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 370

ataatcatgc atatgagcat ntcattctca aaagccaaag actaatgagc tggtatcatc 60
attagaagtt aatattgcat gatcataaca agagagatag tgaaatacca gctttaccat 120
atgctgcatc agcaggttgg actttggagc caacagcagc agcaccaatg agcacagtta 180
tagctaaacg gcgagagatt gngctgacat caata 215

<210> 371
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 371

atgacgttat gttttgatcc atttntttta attcatatta aggggtgtaaa ataaagtana 60
aagtgtatga aattttttatc tttnttggtt anaatttctt ttaagttaan actgggttcga 120
caattttttt ttataaagtt tagaattatt taaaactaac tgcactactc aacannaaat 180
atattgataa aataaacaac actaagntaa attttttnga aaaattatgt aaaattaact 240
agtaatttag ttgtgcaatg cacaagattg taattaanag gtgaaaaatt gaacaggngt 300
tctaaacaat cgagcactat nttcttaatt ntatcatccn gatacaccac atctaaataa 360
aaggctaaaa atatactata tatatcttag atntctttca tctccatgac atgact 416

<210> 372
<211> 441
<212> DNA
<213> Glycine max

<400> 372

tggagaatag aaagtcgcca caaacattag tatggaaaga taaacatggt atttaggggt 60
tttgtgcaaa tacaaggaaa aatgctatta ccattcttgc cctcttagcc tcttcatcac 120

tgtcattacc atcatcacca acagctttcc tggaaaagtt catagcattc ttaaattgta 180
 agtacatcaa taacaatatg catatcagaa aagtgaacaa aaaaaacaaa ataaagatat 240
 tggacttcaa accttctttt tgcaatggcc cgatcatcat gaccagcctc agcatggcca 300
 tggccatggc tgtagtcagg aaccctgcta acaacgtccc tcagaaagca aagacattat 360
 agcttgacac aatgttttct gtcatttcat tcccattgt acgcttatag ttcgcagatt 420
 atagagcttg aaacagatac t 441

<210> 373
 <211> 333
 <212> DNA
 <213> Glycine max

<400> 373

tattctatat ttgtgatggt tgctttgcag tgtgtggtgc tgaatacatg atagtcgtgt 60
 tattgattac aataattatt agtctggggt taattttctt tatgtgcgct attcacatga 120
 gatgttcgct atgaatgacc acatgtttgtg gaacaatgtt aacaatgtta gttatattgt 180
 tccgctcgag cataagaggg gtgcaactag acctcaaac tactgggaga ggaaccttat 240
 gagaatctca atcccactat attgaggaaa caacaacaag caagtatcaa catagaagat 300
 gtgggagaat taaccacaat gagagaaagt gtg 333

<210> 374
 <211> 592
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 374

tacacgtcca ctaccatata cgatgcgtca atctcanatc tgtctaacgt attaacctac 60
 annncnnacc caagacaggt tgattgatgc antctcgtag ccgngatcct atacagtnga 120
 cctgcatgca cgcaagctta tgcatagcat agagaggcac ttggtgtact tgcaactcgc 180
 cctagagctc gccagggcaa gctgtttgctt cactctgaag taacttgggt cacataggtg 240
 agctggttac tttagcccta agccatttgg ggggtgcaggt gagttagagg ctagcctgtg 300
 cgagccaggg cctagaaaat tggcttaaata gacccttttg cccctcccc ttgagtagct 360

tccgcatctt tgacaaaac atcgaatgat ctttcgtctt gcgcggtaac tgggtgttgaa 420
 caactcaatt cagctatcga gaatcacata tccatgaatg atagtccctg cacgaactta 480
 ggctgacag tgcccccttt acttatttct atcggaataa aacgaagtca tattaggcac 540
 tattctattg agtgcgctgc tatcactggg caccggcaat ccatggatat cn 592

<210> 375
 <211> 347
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 375

gctgctcgcg ttatgcgaga cggagaccaa catgctagct attatcgcca agtaccttta 60
 agagataggt ctagccgcgg cccacgagca taggattgcg ggcgaatatg ctcaagtata 120
 cgcggaataa gaggctagag gaaggggtgat cgactctcta caccaagagg caaccatgtg 180
 gatggatcag gttgctctta ccttgaacgg gagtcaagaa cttccncgat tgttagccaa 240
 ggccaaggcg atggcagaca cctactccgc ccncgaagag attcatgggc ttctccgcta 300
 ttgtcngcat atgatacact taatggccca catannatag aaatcgt 347

<210> 376
 <211> 461
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 376

tcccatagga agggcttaat tntcttgagc agtttgtaaa acaactttac cttttcgacg 60
 aacttcaaga ggaacctgga cagggatgct agcctaccat ttagtatttg gacttcttgg 120
 tcattggtct ggctgcacat ctccaatatg gcattgcatt cattgggggtt ggcttcaatc 180
 cctcggtgag tgatcatgaa gccgaggaac ttgcctccgc ctgccccgaa agtacatttt 240
 tgaagggtga ggcgcgatgc atactcgcgg agctcctcat agacttcttc taggtctgac 300
 acatgttggg ctatgctttg agacttgaca accatgtcgt ncacatatac cttgacgttc 360
 catttgatct gctatatana gacttgggtc atcagtcgtg ggtatgtagc gccttgcat 420
 ttaaagccga agggcatgac cctatagcaa anactggcat t 461

<210> 377
 <211> 295
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 377

cttgcgtcct atccttcaac cacttatgat agccaccaac gacanctggt gctgctcccc 60
 taagctcctt atctcttctt tccactgcat tccacgcctt gcggattctc tgaagtattt 120
 ttgcgttgcc ttcattgaaa ccncatgcaa cgaaaggcgc gatgatctct tccaacgggtg 180
 cccctctcat agggtaacct agttgtctta tggctagtat gggattataa ttaatacaac 240
 cccttggtcc catcaagggg tcattcgga atccttcaca tgagcacaac acttc 295

<210> 378
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 378

atcaatatca tttgtattct tgcatacct tgtatcagat ttatttactc agtagtataa 60
 ataccaagtc agttagaata tgttcatacg gaaattgaat ccagataatc atattatcaa 120
 gtccagtcag aagatgaaaa taatgtattc tccaatgggt ctatcatgat agataatttt 180
 aatgtgatgt ttgagtcgtc actatcacct agntgaagga ttgggtccgat acatgtacat 240
 acgttcgtca tcatagagag tatatcgca cgtcatacgc ttataatact acatgacggc 300
 atgatccggt tgactaatgg tctgataact ctcttatct atttattatc agtcatcgta 360
 ctagtcgggt tacagtgttt tataatctga gtgtactgca agtaactcta tccataggat 420
 gaggcattga acgc 434

<210> 379
 <211> 461
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 379

ccttgaacgc acataccggt gccaccggag acccccacgt ggtccctcgt gtcttgcacg 60

THE END

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<223>      unsure at all n locations
<400>      380
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<210>	381
<211>	431
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      381
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cataatatat cgagacgctc ganattgaac aacggaagct ctcgacanat tcgaatggca 420
taactttcac a 431

<210> 382
<211> 452
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 382

acaattgatt ttgaatttca acgttcaa at acactggtaa tcaattacac cattttgaaa 60
tcaattggaa cgttgcaaat ttagttgaaa acttttgaaa tcaaactttg cccctggtaa 120
tcgattacag gaaactagta atcgaatacc agagagtaaa aactctggta acttataatt 180
ttttgagaaa aactcttttg aaaaacaaaa ttgtgctatg tttgtttttt gaaaaatctc 240
ttcaatactt cccttggtgaa gtcttcttga tttcttctct cgaatcttga attcatcttc 300
tcttgaatct tgaaatcaaaa cttctcttga ttcttgaaac tttttgattt cttctcatga 360
aacttgaaat taaacttgat cttgaacttg gtgactcaat cttgaaatca ttctttgggc 420
tttntttcat cattntnggt atcatcacia ct 452

<210> 383
<211> 270
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 383

ggagatgcag cggaagacan aggagaagag gtgagaggag gcgcattcac aagggaataa 60
gccatggaag aaggaaacttc ggcaccaaga atgtgccttg gataagaagc ttggagagga 120
tgcttcaatg gagganaaga aagagagaga gaaagagaga ggggggagca tganaatgaa 180
ggaagaaaag agggagagaa gttgaacttt gaagtgtgtc tcacaagact ctcattcatc 240
anagttacca caagtgttac acatacttct 270

<210> 384
<211> 173
<212> DNA
<213> Glycine max

<400> 384

tatattgaga cacacaattt cgtgctcctt ctcttctctt cctccactc atgttctect 60
tactttaagc tcttatccat gagcttctat ggtggtgagc ttcttcttga ctcatcttct 120
gctagaaggg catctccatc atctttcttc tttttattca ctgccttaaa cta 173

<210> 385

<211> 375

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 385

agatttggtc tgtgaagatc cacagagacc anagctngaa gaggaagccg tcttgagagc 60
tngagaatga tttgtgagtg aatgtgaggt cctagagggtg gaggagacat ccncactact 120
tngtatnttg aaatctttca tctttctttt ctctttgttg tanaggaagc ttcccagtta 180
tggaagacta aatcctctgt tggatcttcc ttgtaggtac ttgatgtaaa tacctgtata 240
tntatntaat gatngtntgt gtgttctactg tgctatcaga acttcattct accatgctnt 300
ngccttgatc acgtagatgc catgtgtttt aggatcattc aacagtggaa agtgggtctga 360
ttcttagaac ttcac 375

<210> 386

<211> 453

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 386

ttagctgttg atctgctttt tgaaaacgta atctttgaga ccgattgttt acaacaggtc 60
aaacaatcga tacttaagga aaagaatggt catgccctct ttcattggaat agtttatgac 120
tgtcaaagaa cgattcatag gactagctcc ttgtgtttta tcaaaagaca aggaaataga 180
attgcacact ctttagcatc tctatcattt tgctattntg ataaatgctg gattcaggag 240
gtccccata aggtggatca natcatttca agtaatgtaa tttctgcctt ttctttttgt 300
actggccagg gtccataaag tacactcggc aatctacata gcactccatt acgcacgtca 360
gccctccatg tcagccctat cacaagagca cggacgtcca gtccttatta gtcgagctct 420

caatagacaa gttatctccg accatttaat tag

453

<210> 387
<211> 339
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 387

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ctgttctctc cttttaagac tcanaattga gctgtctcct atctnntggt ttgctgaatc 120
agagattctc tccaccaccc ttntcaagtc acagaatgaa gggtagtgaag ggaaaataac 180
aatganacaa atctaaaaat gaaagaaagg acaagttggt atgtaatgtg aagagatgag 240
agaggaagag ccatatctca tggcatatat ttctgcaaca taaccccact tatgcttcct 300
tatatgggag tgagatcata caacacctca actactctc 339

<210> 388
<211> 458
<212> DNA
<213> Glycine max

<400> 388

ttcgaccttg gtgatctttg actccatgtc atcgaattgc atgtccactt gtaactcaag 60
agcatcaacc ttccaccaac aaagggttga agaccatcaa acctatccaa aaccttttga 120
agaagagagg aatcttctcc accatgtaaa tgtccttctt catcaatggg ttgagcacc 180
tttttcaccc aagagccatc atgctcttta cgataaccaa aggatgcaat catagtggca 240
ccgattaaga aggatctctt gattggaaca taagggtcag aatcaggagg gatgttatag 300
tgtttaagga agagagtgaac taggtgtgga tatggcaatg tagcatttaa tcgcaatgcc 360
ttatgcatgc gatatcggac taagtgtgcc caatcaatgt gtcggccttt atgaaaagcc 420
cacatgacaa taagatcttc ttcagagacc tgtgcaag 458

<210> 389
<211> 384
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 389

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agtacaacat tccaaatcac catctaaaga aaagttcaac ggtgttctac atatgttcca 120
accaagcaca cacagacaaa catgtcatta acacaaatta taagcaaaca aagataggaa 180
gaccgcgagg gggaatgagc gaggganaat gaaccttaca aacgatgaga gagtgaagct 240
attgtgaggg cgagggcatg caatgatgac gacgataaca cacacgagct tcgacaacaa 300
cactggacaa cttcgacata gacgctntnt gtaacatccc attttttcgt anaaataaat 360
atagagcana taaataaata aata 384

<210> 390
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 390

gaagaagaag aagaagagga aaagaggaag aaagcctctt gcatatgcaa aatctgaatt 60
gtgaggatta gggaagggtt tatgaccctt ataattctcc ttttcacacc catgctttca 120
ctcaaaacac ccacccccta acacacatca agaccatca actcccaaac tcattgaaca 180
ttatgaaaaa ccaattaatt aattatgaca tcaccacata aataattatt tacttcaacc 240
acttaattta aatttaatta cacaggataa tttattaaaa ccaattaatc aaacattatg 300
aaaaacacgg tgttacaatt ctccccaaca agaaaatddd catcctcgaa attttcttgt 360
gaagaanata tcgtangcac tgattaagca cacaactatn tcgctttcta ggggtatgga 420
tctttcctct atgatatnct ggatggan 449

<210> 391
<211> 179
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 391

gtcgaagaac gggcgaaac ttcgcgaaat tcttcacgga aaacgttacg gaaatgtttc 60
ggaagcgcct cggcttagat tttcttcacg gaaacaatct ttccaagcan attcgaaaga 120

gagagaagtg cctaaggggc tgaacccctt cctttcttcac ttctctccct atttatagc 179

<210> 392
 <211> 308
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 392

atcttcagtt tcggagttgg tcccctagta atntaattca tgaaatgggt cctnctattn 60
 tgtanaatcg tgcaatattg atcaccagg ccacaattgg acgttgaccg ttagcaagtg 120
 atgttgactg tcacgttctt attagatgat gactgtcaaa gtatcgtggg ctgtanagct 180
 atcttatatg ttgaaagcat gatgttctac aaacatgaca ccaaccagtt aaatcacttt 240
 cacatgatan naaagtgata tntttcgtn tcttaattat gcatggataa ntcttatcat 300
 tcactact 308

<210> 393
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 393

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 actcacgcaa cttaacttgt ntgacatagg ctaaccgtct tgctgggtaa attggatgac 120
 tgtctaagac tacatcttcc tttccttttc gctcaatatg gcaacgacta gttaattgta 180
 tcgtaacgct cggcaacctc ctaccgaaa gttctctcat tgcagtaact actctgtccc 240
 tctcattcca cttaatcttg cgtaagtaac tgctgatct cacttcatta tccggcacct 300
 aactacatc agtgtcggat agcgattcta tagacggggg tccttggtgc ggtattcgta 360
 tgtccccctc ttttgttttc actatcaacc ccactattct ctcttctcta ctgtcttct 419

<210> 394
 <211> 283
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 394

tctctctctc tctctgtact atatatatat atatatatat atatatatat atgtgcgtgt 60
gtgtgtgtgt gtgtgtgtgt gttaataaaa agctaagtgc tgagtgtgat aattntctcc 120
actcatctca aattaagttg gtggtatctc aaatccttaa gcaatgtagt cctanattnt 180
caacaggctt aatatgagag anattcctac aaacagaagt atattgtcaa taattntatt 240
acacataana ttagacagat acatactagt ggtggtccac acg 283

<210> 395

<211> 116

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 395

accgcatct tagcaccgag ctgagctgtg gacaaacaat agttcttttt tacttaaagt 60
tttccatn atatatggta ggtcagaatg tgctttgtta ttaccttacc atat 116

<210> 396

<211> 478

<212> DNA

<213> Glycine max

<400> 396

caatggctta gtgaggatgg agaggtgcaa gttaggaagc atgtagagtt ggatatttcc 60
attggaaagt acaatgataa ggtgctttgt gatgttggtc ctatggagcc cagccactta 120
ctcttgggga gaccatggca atttgataag agagctaatac atgatgggtt caccaacaag 180
atctctttca catatcaagg caaaaagata gtgctcagac cattgagtcc acaagaagtg 240
tgtgaggatc aaagaaaaat gagagagaaa attcttcaag agaagagaga aaaataataa 300
gagagccata cacttgagag ttcaaaaagt caggactaaa ttagggaaac acatgacagg 360
aaacggatga ctgtatcgct tgtagtgagg gacacttctt accttacta cgatatttgc 420
ataggatcat gatactactg gtcattctgc tccccagtat tctcattagt taaattcg 478

<210> 397

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 397

gtgctcctta aacctccatt aattntttgc tttaccttct cttccattgt tttttcttca 60
 ttttttctcc atgtatctcc tcaaagtct tgtgctaaat tctgttaaca tgcttcttta 120
 gatttttcac ctattaaact tgctatagaa gctaaatttt attttctatg gctcaaattt 180
 cttgctcttg atcttgaacc atgaattgtg ttgagtttac gttcctttga gttttgtctt 240
 gatatttttt gcggctgaaa actaaaccat aaaattctta caataatatt acagtagaag 300
 aaaacctcaa aaatctagag tgacttggtc acctattgta gttntgtcat agaagtcag 360
 tctagtcag aaacttgta cataagaatt cttatgttgn gctgaatcnt attctctctg 420
 ttctttcgct aactcn 436

<210> 398
 <211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 398

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 agttcactat tgctacccca cagagctccg cganatttat tccggccata atcttctctg 120
 cgagccctct tggctctctg ttcaagggtc cttgcggtag ttgcattctc ttcccgtaat 180
 ccggaacact ccttcogaat gtgtgtagcg gccaaactga acttctcctt ggcaagtttc 240
 gcctttccta actcactntt gagagcttgg acttcttcgt cctcttcagg tgcttcaaaa 300
 ctctcttcgc tgatgacttn taacttggtg agccaatcta agcctcgtat atgaactntc 360
 aaccattcat ggtacccacc aatgatgcca ttacgaatgc ccctaagttc ttgatctttc 420
 tttaacnngg gttccatgcc tttatggatc tttgatagtc 460

<210> 399
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 399

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 tccccctttt tgatgatgac aaccacctgt aggttaggag caacaagaaa gaaaaaatat 120
 ctatttgcac atagtttact ccccttggg ttttcaatgt ttgcttatat gagacaattg 180
 aagatttcat atttttcata tataaaaagt tgtctcataa aaaatagata ttttttctta 240
 ctattttatc ttttatcttt tctctcccc tttgtcaaca tcaaaaacaa atcatgaata 300
 gagaggagaa aaaaaatgtt accacttgtt gtaatgtatg agaatcaagt gataccaaaa 360
 ggcattaaac caatcattca atattgatca agcaaaaaca agtatagtaa cacatcaatc 420
 anaaacacaa tcaaaagcaa tcaact 446

<210> 400
 <211> 469
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 400

cattgacaac atgattgacc ccttggcagc cgaagttaa tgtgccaagc tatgcctttt 60
 ggggttattg ttgcttttga aattttaacc aaaaatgact aaagtaggtt taaacaaaa 120
 atggctaaaa tggctaaagt aggtttaaac caaaaatggc taaagtaggt ttaaaccaaa 180
 aatggaaaat tttgcttttg ttaaaactgg taaaccctat cataatccc tagatggatg 240
 tgctaaccct ccttggatgt gtaatcagag tgaaccttgc acaaagtcca ctctcaciaa 300
 gttaaattac atagtcactc aatgcacaat gcaattcttt gatagataga aattcagctt 360
 agacaatttt catatctcta tatcaaacia aacacatata ccttgttata tatctatgta 420
 tagcacgaaa ttcaaggctt agaattatac aatntataaa ttaaattct 469

<210> 401
 <211> 451
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 401

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 caaaatacat gaaaatataa aaaaaagtcc ctaatacaaa gactactcaa aatgccctga 120

aatacaaggc taaaacccta tactactaga atgaccaaaa tacaaggcct aāagaagga 180
 aaaatctatt ctaatattha caaagaagag aggatccaac cttgggtccat ggggtcagaa 240
 atctaccctg ggattcatga gaaccncaag gccttcttta gcagctctag cccaatcctc 300
 ttagagtctt ctatccaata ccccttggtg ggtaggatng cttcattccc ttcaacttgg 360
 aaaggatntg acctgaaaat ccgaaggctt tcataatttg ggctccctcc ctcgacacct 420
 cgaaaaaaga ataaaacata tgtattagt g 451

<210> 402
 <211> 380
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 402

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 taacactctg gagtanacct tgatcacatt cctctaaaat gtgacagcac aagtgcgatc 120
 aatctaacan aaaaaatctt gtcatgcatt ctagaactaa acacatagaa ataaggcatc 180
 attntctcaa agatcatatg ttaaaagttg attgggtgat tgagttcata gatagtgcgc 240
 atcaactaac agacgttntc actanaccac ttgctagaga tagattctnt ttcgtttagaa 300
 atgaactaga catattagat gcacttagta tagaatgaca ttctatttgc atagtgtgtg 360
 atgcacattc ttactcatat 380

<210> 403
 <211> 114
 <212> DNA
 <213> Glycine max
 <400> 403

ctaaaaactt agttagataa aggttataga tttaggcgac agtggcagcg gcaattatac 60
 aacgcctgcc tacataaaac tactgattct acatagatat ccaggacgat cacg 114

<210> 404
 <211> 393
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 404

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acaagtcata cctaattcng attggtctga ctaaacaatg tanaagtatt tatactagtg 120
atztatgaaa aataaattca ttntanatnt gtgtttaatt ntaatttatt gctggtgtaa 180
ataattttac cccatcaact aattaanaat cttaatgtaa ttataagaat ttaattat 240
agcaccacaca atataatata taggaaccag tacaaaaaat tctttttaac attagttg 300
tttaacattn tatatatggt ttgtaatgta tgctaataag ttgatataga aacactaca 360
gaaaaacact taaacatggt tgatatat 393

<210> 405

<211> 241

<212> DNA

<213> Glycine max

<400> 405

ttatcctgct ttgatgaata tgaagcctcg ggaagatgga gagataagaa agaggagaa 60
tcatgttggt actgccgct acatggccaa attccacaac taacaatgca acacttagct 120
agatagtcatt ttcataccca ccacctaata gtaagacact tatcatcaca aggccacctt 180
aatcagcaca aagtcacctg ccgacatcta tataaacacc ctcttacact accaaacact 240
a 241

<210> 406

<211> 246

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 406

atcatgataa caaccaatat gaattccact canaggagtt gggcatgtaa aagccaaaac 60
ttcttcaagc tntagcctta agttgttcac catgttgctc ccctatctct aacaacccat 120
gcatgtagtc caagttcaaa ggattatagt atgttgatag tgggcgcata aaccatatga 180
taagggactc aagtctgtta aactctttag acaaggctgt tagaaccaaa gtcaagaatg 240
gaaatg 246

<210> 407
 <211> 454
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 407

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 ggacaaaagt gggcagtaaa cttgaatgat cgtcattgtc aatgcggaag gtattctgcg 120
 cttcactatc catgttcaca tattattgca gcttgtgggt acgtgagcat gaactactac 180
 caatatatag atgttggtta taaaaacgag cacatcttan aagcttactc cgcacaatgg 240
 tggcctcttg ggaatgaagc ggctattcct ccttctgatg acgcatggac acttatccct 300
 gacccaacca caattcgtgc gaaaggctcg ccaaaatcaa caaggataag aaatgagatg 360
 gattgngtcg aaccatctga gcaccgaaca naatgcagta gatgtggagc cgaagggcat 420
 aacaggcgtc gctgtccaat gcaatctgag cgtg 454

<210> 408
 <211> 304
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 408

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 taattcagct tatagggtgag aatgaagcta cntagctcc tatatatnna accatngatn 120
 ntaatagcaa tatggcactt ntgagcaaga attactctct ataagttntc atatcaagag 180
 tcanatgcta ttgaaatgga taaatgcaca atataattgg tgtgtatcaa ccctaacaca 240
 acaacactac cacaaaaaca cacacnctat gatccacaat tngaaacgaa agggaaaagt 300
 catg 304

<210> 409
 <211> 457
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 409

aaaggatcga agtgggtctg aaaagaggca aatttaataca tcttgcttgg gcgaatgaga 60
 aaactggggc aattgaagaa ggtgaggatg agggagaaac ccatgctgtg actgccattc 120
 ctatacgacc aagtttccca ccaaaccaac aatgtcatta ctcagccaat gacaaaccct 180
 ctctttacc accacccagt tatccacaaa ggccatccct aaatcaacca caaagcctgt 240
 ctaccacact tccaataacg aataacactt ttagcacaga ccanaacacc aaccaagaaa 300
 tgaattntgc agcgaanaag cctgtaggtt cacccecanat tccggtgtca tatgctaaac 360
 ttgctcccat atctacttga tactgcaatg gtagccataa cccctactan gtttcctcaa 420
 cctccatttt tccgagggta cgactcgaac acaatgg 457

<210> 410
 <211> 254
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 410

tagatagatg acatcnagcg ataactgagc catgtgaatg ctcatncgtg tcaggatggc 60
 gtacactagc taacacttgc gcagggggag gtcggaatta tgatcgctgg gctggatgtt 120
 gctgagcagc anaatcatcc agatctgagt caggggtggc atgggtgggtgc gcatgatccg 180
 cacnctctt ccagcagcag tccaggcana atcctgcccc ggtatacata gcaactgggc 240
 gatggcctct catc 254

<210> 411
 <211> 455
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 411

aacctatatt taaaataact taatgccatt aacctaggga attaaaacaa acttaatggc 60
 tgagtgtaac tgatattgtg gcaaccaaaa gtcaccccca acagccaaca agtcagccac 120
 catttggctt cccaaaaggc tgatgcctat gttgccaatt gggcccttat tacaacttga 180
 actaaagccc ttttagttga ttaacccaaa acatattttt ggtagccaa ctttacaagg 240
 attggggccat tatttagaca aactaaacac tctaaaactg aaataaagtg gtgtcattta 300

1945

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<223>      unsure at all n locations
<400>      412
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<210>      413
<211>      448
<212>      DNA
<213>      Glycine max *
<223>      unsure at all n locations
<400>      413
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<210> 414

<211> 278
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 414

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 gttgtaaatt cnagttgaaa aacttttcan aacaatattg ctactggtaa tgtcataccc 120
 taatttcgtc cggggacctt tgcttgatga catgcgacct ttctttggtc cttgtgaggt 180
 gcttggcatg catcattang caatntgtga gattccagga catgccgaca aaccaacaaa 240
 atattgatgc acaaatccgt aagtttccgt gacacacc 278

<210> 415
 <211> 457
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 415

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 tgagtataat gtaagtgcc ctttcaatgt gtctgatcta tctctttttg atgcagatgg 120
 aggagccttg gatttgagga caaatccttt tcaagaagga gggagtgatg aggacataac 180
 caagggcaag gaccatgaag cacttgaagg tcccatgacc agaggcagac ttaaacaagc 240
 ccaacacgtc atagagacaa ggctgggtcat ttgtatagct gccattgatg atgattgaag 300
 gcccaagtgg agaaagatga aggcccagag gcagaggcac taccaagact actaattggt 360
 gttgaaggcc cataactaact tgaaggccca agttaataa gttnttagtt ataatttatt 420
 tntattggaa ttctggccca tactgtntag aacgcn 457

<210> 416
 <211> 511
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 416

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 actatcatga agcaganaac taacaaaact acccatcata tctcccaaaa ccccataccc 120

acaaatattgg agcttcaatg gagaatgaag aagaagagaa tggcaacgtg agggagagag 180
agagctgtct gaaataatgt ggggctgagt gaagagagag agagttgctt tttgatttta 240
aaaaggcttt ttcctcattt cttattattt tattataaac tatgccacat gtctccattt 300
gagtggagca aaaagggccc actttccctt ttgactgtga cccataactca gccacaaaag 360
tgaggaaaat ctgacctttg aaatgctaaa atcctgcctt ggttggcgtg ccgtttctct 420
ggttccagtt cctcgcgtt ctctgcgtcc atcggngcca gttttcgaaa gtacgcaata 480
tatatatcan aacgctcaga ataaaacccc g 511

<210> 417
<211> 445
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 417

attctattag cacggattnt atcagctcaa caaaagtttg tagatgcaga acttggtata 60
gatgctgctc tagatcaaag tggcaaattg gatcaaggag aattgttgag aactaaagct 120
aaactacgga ttgcacaagg aaaattaaag aatgcagtgg agacatatac ttttcttctt 180
gctgttcttc aggttcaaaa taaaagtta cgcacagcaa gtaaggttgt gaaggatatgt 240
gtcaatgata aatgtagaat atatcactta gattctttaa taactcanat tatcaacggg 300
aaaggaatat tagaagcttc gctcacagtc ttanactcta ccttttaaca tatgtagaat 360
aatatattac ttttctgatt tatctttcat acagaataan ggaaaccgtg acagaagact 420
ggaaatggaa atatggcttg attat 445

<210> 418
<211> 480
<212> DNA
<213> Glycine max
<400> 418

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ttatctccca ccctgtcct tctcaatcat tccaatcccc accccccaaa gtccatgagg 120
gtacccttca ttatgtggtg cttacggctt atacaaatct aataatttgt ggattcaggt 180

agatgtggag tttttgatgg tactattgaa aacatgcact tgcactggaa gtactgggaa 240
 ctgggtcaaga aaattgtgaa ggctaaaacc tttgaacgag taaaaaaaaat tgcactagca 300
 cttgaagctg agagtggagg tgttctggtc tcagttgaca aagtttcaaa aggatattct 360
 gtaattgttt atcggcgtaa ggattaccaa cgtccttcaa cattgagacc cacaaatctt 420
 ttgacataga gaaaggcttt agcacgttca atcgagcttc aacgacatga ggtatgtatt 480

<210> 419
 <211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 419

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 tgggagatcc tgaaaaccac tcatgaagga acatccaaag taaagatgtc cagattgcaa 120
 ctattggcta caaaattcga aaatctgaag atgaaggagg aagagtgtat tcatgacttc 180
 cacatgaaca ttcttgaaat tgccaatgct tgcactgcct tgggagaaaag aatgacagac 240
 gaaaagctgg tgagaaagat cctcagatct ttgcctaaga gatttgacat gaaagtcact 300
 gcaatagagg aggccaaga catttgcaac atgagagtgg atgaactcat tggttgacct 360
 caaacctttg agctangact ctcggatagg gctgaanaga agagcaagaa tctggcgctc 420
 gtgtccaatg atgaaggaga agaagatgag tatgacctgn 460

<210> 420
 <211> 269
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 420

accatacaga acctttgcct tccatgcagc aacctggagc aattgagcaa cctgaagctt 60
 atgttgcana tatttacaat agacctnctc aacctcaaca gcaaaatcaa ccacagcaga 120
 acaattatga cctctctagc aacagataca accctagatg gaggaatcac cctaattctca 180
 gatgggccag ccctcagcaa caacaacagg gggtagcgaa agtaccacct tgaattgtat 240
 attcaagaca tttgagaata aacaaacac 269

<210> 421
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 421

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 gatgctttct ggtgttgcac acgagttgag gcaggatgag ccaagctttc aatggaccca 120
 atcaaaataa gaacattgaa gcttctaaag agtgacacgt atattataca aatataatag 180
 ttagaaatag atagtatcat attatagctg atatatatca gatgactaac ataagatgat 240
 cactgctagc tggacggcag caganaattc atgccaggaa acgattaaat tttgacttta 300
 ttaattcttc tagcacctta taatggaaaa aagagttgat agatttgccg ctaaactttt 360
 tatttaaaac aaacagagtt tccaacatcg attgagagtt tttttatatac aaacctgtga 420
 ataattgt 427

<210> 422
 <211> 365
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 422

cactcacaca ccgcactctc caatccttag ctcanaccta tggtcctttg atgctacttc 60
 actttggaaa aatgccagtt cttggtgtct caactgctga ngctgcacgt gagggatatga 120
 aaacacatga cctcgttntc tccaacagac cacatcgtaa gatgtttgat atcctcttgt 180
 atggttccaa agatgtggca tcttctccat atggcaacta ttggaggcag ataaggagta 240
 tatgtgtctt gcactttctc agtgccaaan aggttcaatc ttttggtgca gtgagagaag 300
 aagaaaatctc cataatgatg gagaagatan ngcagtgtgt cttcttgatg ctgtgaatta 360
 tctga 365

<210> 423
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 423

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aaaaagctca aagatcaaag aacaactcaa gtaaatcaaa gaacatctca agtgaatcaa 120
gaacaagtca agagttctag aatcaagaag aattcaagac ttaagaagaa agcctagaat 180
caagaatcaa gattcaagat tcaagaatca agactcatga ttcaagaatg aagaaaagac 240
tcaatcaaga taagtattaa aaagtttttt ttttaaactt tgaatagcac atgagttntt 300
gacaaaacct ttaccaaaga gttnttactc tctggtaatc gattaccagt agcaaaataa 360
gtttgaataa gttttcagac tgaatttaca acgttccaat tattntcaaa aggctgtaat 420
cgattacaat gttntggtaa tcgantag 448

<210> 424
<211> 469
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 424

ccatcaaccc catgccaaaa tacatganaa tatataaaaa aatccctact acaaagacta 60
ctcaaaatgc cctgaaatac aaggctaaaa ccctatacta ctagaatggc caaaatgcaa 120
ggccaaaaag aaggaaaaaa cctattctaa tatttataaa gaataatgga tccaaccttg 180
atccatgggc tcaaaaatct accctaaggt tcatgagaac cctagggcct tctttagtag 240
ctctagccca agcctcttgg agtcttctat ccaataccct tgggggtagg attgcatcac 300
accatacaac attggttttg accatcaatc actatccctt tgtggttgat tcaccttcaa 360
atcatattta tgtttggaag agagaaattg ttgttggtgt gagcgtaact tctcattctt 420
tgttgatctt tcacactcca ccttcacctt cactaatcaa ctcaaacct 469

<210> 425
<211> 234
<212> DNA
<213> Glycine max

<400> 425

tctgtgacac catcagacct atgccttcat gcagaacctg agcaataggc agccgaagtt 60

atgctgaaat atttacacag acctctcacc ttagggcaaa tcaccatgca aacaatatga 120
 ccttcagcac agaacaccct gatggggaat acctacctca aggtcagcct cacacaacag 180
 agctgctctt cttcaaagt gtggccagag acatcattct cacatccaca caca 234

<210> 426
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 426

gctacaacaa ctgcagcaag acccactatc cacaatgaca gaacaatatt tgtntatacc 60
 ttgcatcttg tatgaaagat gttctctctt tgtgtttggg ttaggtcaca agattgactc 120
 ccaagtaacc ttctgaccat tagaagatca cttcttcat aggggtaaat ctcttcaata 180
 tggatcac cattggcttc accctcactt ccaactngagg aaggagaaga tgtagcctnc 240
 ttttggctac tatagatgtc ttgaccgtc atgatcatgg ttttctttgt ggggcaatga 300
 gaagcaatgt ggcctagcaa tgcttgttct ttcctcctcc ctaagtctag ctctcagaag 360
 ggagtagtgc atttgtggct atattcttca cactcatact cccttngcta agcttttt 418

<210> 427
 <211> 589
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 427

ctaacggctt cctccatag tcataggcgt taaagcgggt gtaatatctc gtaacacttc 60
 aaaannccta gcactagttt gaatcatgcy tcgctgagac centagagtc gacctgcagc 120
 atgcaagctc tgtccttaga tcctcttctt tggactatac tcataccaag caacattatt 180
 gtacaacata ttataaccaa cacttaatcg gcagattcct cttagcagac taagattcaa 240
 ttctgcttca ttcaaggctt aaggcaacaa tacatcttcc aatgcttaaa tcacctaacc 300
 gggcacacaa atgggttgatc agaccatgag catacaaaat ttaagcactg aaagaagcat 360
 tgaacacact agaaactcaa tcaattagat attaaaataa ttacatcagg tgttcttttag 420
 aaatacccaa caagggtgtt tagcccacca ttacagacaa acccctatca ataagagat 480

aaataaacgg taagatttct tgaaagctgt ctttttgctt ctacagagct ttttccaaaa 540
ggcacttggg tgcttataat ttgtgcaaag cgtgttaaatt ctggagtan 589

<210> 428
<211> 192
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 428

caaccaaaga tatgaagatg tgagatgtnt ggttctctgc catcgaataa ttcatatgaa 60
gtnttctnta aaatgggtct tattaaagcc ctatctaaaa tgtagcatgc agtggttaacg 120
gcttcagccc ataagtattc tggaagagga gtatcattca ataaagntct agcaatctcg 180
tccaaagatc ta 192

<210> 429
<211> 526
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 429

cgttgatcgc tcgtgacgag ccnnttgagt aacatcgacg catgcaagct tgcatatgaa 60
gaanatgggt gggtgggcat taaatgtgtg cattaatgc atatactttc tcatgctaag 120
aaactagtct ttgtcgcagc gtattgaaca cttaaggagg aaaccacttc ttttgtgtta 180
gaacaagttt atgcaacaaa gttcttcttt tgatggcgat tgagaaaattt tagagcttga 240
cttcatttat tcctcatagg atgtgacaaa tcctaggaga atatctctgt aaaatagatc 300
tcaaacacaa gagtattaaa tgaagtctta catgtcaact ttaatgttgt atcagatcat 360
gatttcattc tggctaccat tgaaacatca gatgcagact ntgcaaaaaca tgatttgata 420
gcacataaga tgcaactnta aaccttcgta tttgttttca tctaacaaca tgtcttaaga 480
cataaatgtc tttaaaccta gcaggaatgg tattectatg aatacg 526

<210> 430
<211> 250
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 430

acttcatata gcagtctata tggctgggta ttngaaata tcacaattca tatgtcaggg 60
aatcttgtca cctagagaaa attgagaaag attntcttag ataatagtcg agaatagaga 120
gtagagacgt tgggaacaga gataatatgc tctgtcttac tgcgaccaa actacaaagg 180
gtgtacaaag gagcactcgt ctttcacacc acgatgagtg ctcgtcaca cactgtacac 240
atgttattac 250

<210> 431
<211> 459
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 431

acatgtggta ctaggtggcg gtcgggcat gatgcacaac aagctttcca catccacaat 60
gcgcgcataa acccaccatc cctttttgcc cacctccaac tgagctcag tactcccacg 120
tagcccatat ctcgtttct ctcaacaccg ggtaccatc aatcctcca agcttccaca 180
acatccaagc aaaacaacat tcaaacagca caagctatca cagccaagca aaacagagca 240
aaggcagaaa actctgctca acacatcaac caaaatcaca gcttttctca cttaaagacc 300
acagtaacaa ttccttcgat ccaattcgtt aaccggtgga tcgactcaa aattntactg 360
gaagtctata gtgcataagc ctacattntg accgttggga tctactggca nacatccaga 420
actcattctg cactactctn tccacaacca gcanaaach 459

<210> 432
<211> 201
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 432

agctacctag tctataaata gaagcatgtg taacactagt tgtaactntg atgaatgaga 60
gtcttgtgag acatacttca nagttccact tctctccctc ttttattcct tcaatttcgt 120
gcgccccct ctntctttct cttctctnt cttttcctcc attgaagcat cctctccaag 180
cttcttatcc aaggctcatc t 201

<210> 433
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 433

gaaacttcct gcttttattc gttgaccaca gagtgggtacc tggagatatg tcgcgngnggt 60
 caggagacct tngggacgtc aggtgggggtg ctattgccca aaaccaagct tgaccaatcc 120
 cgaccaacc cgggcatagt cagtcagtga gagcctgtga tgtacctaaa caggcgagct 180
 cctggcagtc aacagataaa aggaacaaaag accacaaaagc aaggaggctt gtgggtggctg 240
 gccagctgtg aactttgatt gatatgtgag atttggcctc tggtaatcga ttaccaaggg 300
 tgggtaatca attacaaggc ttanaaatga agacagaagg ctaagatggc ctctagtaat 360
 cgattaccaa ggggggtgtaa tcgattacca ggcttgaaaa cgaggtcagg aagccatgan 420
 ggcttctggt aatcgattac caaggggggtg taatcg 456

<210> 434
 <211> 318
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 434

gaataaagag ggggagaagt agaactttga agtgtgtctc ataagactct cattcatcan 60
 agctacaaca agtgttacac atgcttctat ntatagacta ngtagcttcc ttgagaagct 120
 ttcttgagac aacttccttg agaagcttct ttgagaaaac ttccttgaga agctagagct 180
 tagctacaca caccctctc ataactaagc tcaccttctt gagaagcttn cttaagaaga 240
 ttcgtanaga agctagagct tagctacaca tacctctcta atagctaagc tcacctcctt 300
 gagatgagaa gctagagc 318

<210> 435
 <211> 215
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 435

tatgtggact aggtggcgat cggacgatgg tgcaagtcga ctcttcacat ccacaaatca 60

cacataaatc catcatcccc agntggccac cttcaactga gtcacgtac tcccacgtag 120

ccncttatcc tcgntccttc aacaccgggt gtccatcaat ccctgcaagc ttccacaaca 180

tncaagcaat tcaacattca tacatcatga actat 215

<210> 436

<211> 308

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 436

gactganaat gttattcagt ntgtcagaat ggatgtgaag cttttgattt gttggcagcc 60

caacctcatt acanacctag aaagtccttc ggattcattn tgtgtgttta tttctgtatg 120

gtatgagatg atatgcanaa gttgggactt ctgttagttg tttataatgg aatgatccta 180

aacacttgag cttgagtga acaacgactg tgaggctntg gttgatgatt ctttccttga 240

tatctgccat tctcactaac ttattntagt tgtgactcta atgcatatgt tcctatcatt 300

gaaaagct 308

<210> 437

<211> 456

<212> DNA

<213> Glycine max

<400> 437

actaacgtcg tcttctgcga cctttgtcaa tcgcggccga caagcccgtt gacacgtgga 60

gatttacgtc atcttccgcg ctcacaagat ctgtcatact gacttttgag tcacgtgac 120

ggccggaaat atccgagtgg ttatccgtat aaactttttg ctgtctgtaa gacgaaaagc 180

ttgatagcac gcagagacta acgtcgtctt ctgtgccatt catcaatcgc ggccgacaag 240

cccgttgaca cgtggagatt tacgttatct tccgcgctca caagatctgt catactgact 300

tttgagtcac gctgacggcc ggaaataccc gagtggttat ccatataaac tttttgctgt 360

ctgtaatacg aaaagcctga tagcacgcag agactaacgt cgtcttctgc gaccttcgtc 420

aatcgcggcc gacaagcccg ttgacacgtg gagatt 456

<210> 438
 <211> 254
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 438

actcanaagt cagtatgaca gatcttgtga ggcggaaga tgacgtanat ctccacgtgt 60
 caacgggctt gtcggccgcg attgacgaat gtcgcagaag atgacgttag tctctgcgtg 120
 ttatcaagct cttcgtctta cagaatgcan aaagtttata cggataacca cttcgggtatt 180
 tccgcccgtc agcgtgactc anaagtcagt atgacagatc ttttgagcac cgaagatgac 240
 gtanatcacc gcgt 254

<210> 439
 <211> 487
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 439

atgtataata aaataggtaa tgtgatacat agaaggatga caagcaataa aatcgaacat 60
 aagaaagtat tacaaaaagt acgaataata ttaagataac ctcacataat ggagaaacag 120
 cattcttgat aacaattcac ttccatcaca agaaanaaga tctgataccg tggactgatc 180
 aaacgcatat tnganaaaga tatagaatag ttatatcttt gattcagtgt atggccaaaa 240
 attgacggta cagaatgtat gaagagagtt tagtctaatt aactaaacag aatataccaa 300
 tattgtaaac tntagtatgg tggtcagcta gtacggataa ngaaacaata caaaatttga 360
 tctaaataat atagctctta tgtcaaagca caatangatg atttttaaca aatgactgaa 420
 tcaacacgca tatatttatc aatctccaca aagatagaga tcatataaac atctcttata 480
 tttatat 487

<210> 440
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 440

ttgtcgtgat taccaagtga cagaacaaca ttacctgtat tgagcaactt caataagaac 60
 ctttacaggg atgctatcct accctttagg atttggactt cttggccata ggtatcgctg 120
 cacatctcca atatggcatt gcatttattg tggttggctt caatccctcg gtgagtgacc 180
 tgaagcccg gcacgtgcct tcgtctgcac ctaaagtcac tgttgacagt ggcagcccat 240
 gtatactccc ggacatctca tagacctctt ttagcgccgc aacatgtagt cctctgcttt 300
 gtaattcgac tcctatctag tgcaaata ccttgacgcc acattcgatc tgatatttat 360
 aggcataggc tcaacctacc gtgtgtatgt caccgctgac ttatctagcc ccacgcgcta 420
 ccctaaacaa cctcgcgcg 439

<210> 441
 <211> 419
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 441

caacaagtat tctncatcat gcacacacac acantcatat caagagaaaa aggacattaa 60
 tccttttccc ttcctanggt cacaatcaac atggcccttc aagtggaata atccacttta 120
 ccaaatacaca caccaccaca tatccaatca ccaaatacatt actagacatt caaagtanna 180
 tttttctgaa ggttgacac nctttgacct aaccctanag tgcgacgaat ctttaattaat 240
 atcattaata aactcatata cataacacac aacattcttt accaagtggg cacactcaat 300
 tgggtcttaan acatatacaa tagcaattct tataatttca tattataaag tctncatcan 360
 agtanacaat acattctaca attcacatca ttaatttcat gcatttcata tacattcat 419

<210> 442
 <211> 463
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 442

tcaaagcctt gtatggattg aaataagcta taagagcttg gtatgaaaga ctaagtttat 60
 tcttactcta gatagttact ctagagaaat agtggacact tcactattca gaaaggctta 120
 gaaaaaggat ctgctgatta tacatatata tgtgaatgac atcatttttt atgtaacctc 180

[illegible]

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 445

 ctccagctaat aaggaggaag tggagaggtt ggaagctact ttggccaccg cccagaggga 60
 gaggaatgct gaaaaggagg agaggattgn ggttgagcaa aaaacatata acaatgttta 120
 tgaagcttat gagtgtgggt tgaatcactg catctaaca ttacactttg actatgaggt 180
 cccaaatgaa tccattttca acatgaacaa agatgtctat aatggagact taatcttgat 240
 tgatgacatt tcggatgagg tgggatcaaa tgggtgggcag ccaactaccc ctcttggtga 300
 aacccaaatg accaattcgg ctgaggagga tgtggacgat gtcccatata cgagccanaa 360
 tggcgtctct t 371

<210> 446
 <211> 436
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 446

 tgttcgcaca tcgttcgcgt gtatgatata cactcgacaa ggtttgaagt agaggagacc 60
 ttcaatccta taacgcaacg tggcggacaa aaatgggcag ttaacttgaa taaccattat 120
 tgtcaatgcg gaaggatttc tgcgcttcac tatccatgtt cacacattat tgcagcttgt 180
 ggttacgtga gcatgaacta ctaccaatat atagatgttg ttacaccaa tgagcacatc 240
 ttaaaagcat actccgcaca gtggtggcct cttgggaatg aagcggcaat tctccttct 300
 gatgaggcat ggacactaat ccctgaccca actacaattc gtgcgaaagg tcggccaaaa 360
 tcaacaagga taaggaatga gatggatngg gttgaaccat ctgaccaccg acaaaaatgt 420
 agtagatgtg gagctg 436

<210> 447
 <211> 442
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 447

agcgcggggtc tgggagacaa aggtcaagcg ttcgcgatat gcgaggatga tattccgagt 60
 actttggatt tggtagcacc atgccctcct gatttccagc tgggaaattg gcgagtggag 120
 gaacgccccg gcatttacgc aacgagcata atgtaaacct ttacggttttt aaaagctcta 180
 tagttgggcc taggcttttag agtttttctt tttgttaagg ctttgtgtct tttgtttttg 240
 aatttataat acaaggatct ttcttcatct gttcctggtc tctacccatt ctcatcatt 300
 tgcattgttta cttctttntc tgaaacggca gatccgatga cgagtcccc gaaggacta 360
 atacctggga cccgcctatc gacttcgagc gagaaatgaa tcanacggaa gatgaaggaa 420
 atgaggatgt gggacttccc cc 442

<210> 448
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 448

ngagttgagg aagtgtagaa ggggtgaaact tctgctntt attcgttgac cacagagtgg 60
 tacctggaga tatgtcgcgg nggtcaggag accttgngga cgtcagggtg ggtgctattg 120
 cccaaaacca agcttgacca atccccgacc aaccgggga tagtcggtca gtgagaacct 180
 gtgatgtacc taaacaggcg agtcctggc agtcaacaga taaaaggaa aaagaccaca 240
 aagcaaggag gcttgtggtg gctggccagt tgtgaacttt cattgatatg tgggttatgg 300
 cctctggtaa tcgattacca aggggtgggta atcgattaca aggcttataa atgaagacaa 360
 gaggctaaga tggctctctg taatcgatta ccacggggtg taatcgatta 410

<210> 449
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 449

tagaagaaca aaattgcctc aatcatttcc aaatatgcat gtgaattang aagcatcaac 60
 aagaatcaag ccaaggctat tgtgcaagca atcaatggg caaacacac caaatgatta 120
 tgatgatgga tggctcaaata tctcaciaag gtaaacatcat cactttcaaa ttgagctttc 180

[illegible]

<400> 450

<210>	451
<211>	384
<212>	DNA
<213>	Glycine max
<223>	unsure at all n locations
<400>	451

<210>	452
<211>	401
<212>	DNA
<213>	Glycine max

<223> unsure at all n locations
<400> 452

tggatttcct tntagtaggg aatctatcct tcctaagatg gagccaaacc cagtcaccct 60
cattaagaac tagctctttt ctctctctat tgcccttagt tgaatacacc tttgtttggt 120
tctctatttt gttcttaacc ctctcatgca acttctttac aaattttgac ctagattecc 180
cttctttatg tataaaagaa gtgtccagtg ggaggggaat gaggtctaac agtgttaggg 240
gattgaaccc atagacaacc tcaaaagggg actgcttggt ggttctatga acccccctgt 300
tgtaggcaaa ttctacatga ggaagatact catccaaga cttatggttg cctttcagaa 360
gagcccttat aatggtggat taaaacctat tcactacctc t 401

<210> 453
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 453

tcgtgcatgc cctttcccat ttcttgatc agtgacttga gttcgtcgtt tgaacggccc 60
aacgcattgt tggtccgttt catctcttcg attttcggag ctattgcttt caggatattt 120
tgagggcaga ccaagttttg tttaaagagt gtggctctgc ttattgttcc tgaaacaacc 180
aattctacga gcatagcctc tgccatatta attcagagc tagctagtct caataacgag 240
aagatgtata tatatagcaa ccttagactc tgcacaatat aaactcatgc atgcaaccaa 300
gatgcttctt gtatactatt gttaaaggga agtttctttg acacttcatt cccaatttca 360
tattgcttct tatantattt gctgacttgt actgggtagc gttaatatca acgggtgcaa 420
aacgtctttc ttttcttttg acct 444

<210> 454
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 454

tctttcctaa atcaaagtat aaatgattnt atattataag tataaaccta ttaaaaaatt 60

ccgttcaaaa taataagata attttacctg aaattttgaa ccaactccact tgtttttaaat 120
gagccaattc caatcttctg gagatacgta ttttggctta tcattttctt taagataagc 180
ttgatgtaaa tgataaagct tattcttgta ttgagattga attttcttca ttgcatattc 240
tctttcctcg ccagataaac taaaagcatc cttatatcaa acgttttcac cagcaaaagt 300
aaaaattaaa tactatcaag atacattatc aaaccaattt gaagatataa ctaatattca 360
aatatataaa taaattagat ataattaacc taattatata ctaacattca tatgtcgcca 420
catttcatct acaccatcct tactaatttc act 453

<210> 455
<211> 442
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 455

tgttcttagt aagatcgatc agacgatgct tttgttcctt ggagagcaac ccgtcttggc 60
cccagaaagt gttgccaatg ctctagtgga agtgatgaac gatcctttct cacacttaat 120
cgctgttgta taaaattctg caccaaatat ccaaacacca ttaaataaac taaaattcaa 180
ataattaatt gtatggatgg attagtcaaa taaaaatttc tattagccaa gatattatag 240
gaatttgta agtctatcac gtgagcagtg ggcttagtgt tcctttcatt aggagattca 300
tgaaaattnt gtcggccaca naattgtgag acttcttaat caattaaatt aaaaaaacc 360
tagtaaaata aaagttgacc agcatanact aatagtggga atataattag tatttgaatg 420
ccaaaatcaa ccacatattt tt 442

<210> 456
<211> 431
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 456

cgagaaagcc cttctgattc tgtttataca tttctgactc tatggcatga gatgcaatgc 60
acagattgga cctcctgtta gttgttatca aagaatagct tatacacttg tgcttgagtg 120
aaacagttgc tgtgagactg tggtttgagc tactttcctt gatacctgtc ttatgattaa 180

cttcatctaa ctgtatagtt cacatTTTgt tctcctcttt gtctagctgc atattctggg 240
 aaaacaagtg ataggtacac attgcttcat cttttacatc atgcaatcaa taaattntaa 300
 tgcatacacc tttgaacata aacactgcat gttntaccac ttgaggacaa gtgagttggt 360
 ctcttttTgt tgaggacaag caaaactatt aaatttgggg agtttTtagt cgatgaatac 420
 gactaacttt t 431

<210> 457
 <211> 357
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 457

cttctcggat atctgttatt gataaacaag atcaagatga gtatagtttg aggtttatac 60
 acagaatctc caagattggt tatagtacaa gcggttagta aacacagcat atatgatacg 120
 tggcaagcac atggtgagag gtgaatcggT aatcagtaat cacacagtta agtgaaatac 180
 taaagtttat ggagatagtc cgaaatctta cagaaagtca aaagttctta taatagtagt 240
 taaataaata aataaataaa agtagaattt gactaagaat gaaaaagtaa tattttgttc 300
 aataactcat ggnggtatat atacgagtgt tctgacgcgg gaatcacaaa cagaacc 357

<210> 458
 <211> 479
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 458

ctattaggac tcttgcaact cagctcgtac atatagtttc aatccgaggt ctttcaagag 60
 acctagtaaa agtatcagcc tattgttcat tggaaccaac aaagtcagtc atgatttccc 120
 ctgacaacac ctttactctt gcaaagtgac aatctaTcta tgtgtgttta gtttgttcat 180
 ggaagaccat attagatgca atgtgaagag cggtttgatt gtcacaaata agcttagtgt 240
 cctgagtgcc taagtcttTgt aatttcgcat gtagctgcta ccatggcaca atgttaagct 300
 ttgatgctga atctagcaac tatattttgc ttcttgtttc tccatgagat caaatccct 360
 caaagcaaaa cacaataacc agaggttagat ctcccgtcca tggntatcga attgaaagat 420

tcgaattgtg aatcagaaaa gctatattac gaatcgtgaa tcgaatcata tatgaatcg 479

<210> 459
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 459

tgtcaaataa atcactgcat attgtgcagt ccctatcatc cttcagagga atgtagaaga 60
gagtaggctt gcaaacaagg ttccaatttg gataaaagtg taaaactact tattaattag 120
aattttatga atcattgttt ggaatattga agaaaaaaga caacctgaca accagctgcc 180
ctgaaggaac taaaatcatg gcatccaaca agaactctgc atgcttcctg catggatata 240
atcaataact tgaatagctg caagattgag aatctagtaa gtataaggag ctgttaacta 300
acttgcatag ctggaagact aagctcctca ggtacatgcc atgctcgatc tttctcgaag 360
gttgacaaag gctctggccc agaaagcaac cgatagaagt atctgaatag tagttccaaa 420
taactatcaa ttactgcana tggtcataaa caaaac 456

<210> 460
<211> 470
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 460

tcagaccaaa gcaactcana atctaggtat ctaaaacccc tcaatttagt ggattttcaa 60
ggtttgagaa gtgaaaatga gaatgggta aacttggagc aaactctcat ctcaaacaag 120
tctatatcat caatctaaac tcgctcaaac tggttttacg acgaaaactc taccgaatca 180
aaatttgact cctcaacacc caattttacc ctagaaatgg ctcttggttt cactttggtc 240
actcatattc ctcatattgca cagtctaagc tttctcataa gtcctaaatg acatttcaaa 300
ctaggattaa ctccctttta cctccaaata ccactaaatc cagatttggc cttccaactc 360
tcaagcctca ctctttttcc actcataaca ccacattctc actntctaac cctagggttaa 420
ctctaccctt catctctagc agttgtccat aagcaatttc agcacataaa 470

<210> 461

<211> 248
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 461

tctacttatg tggcagggcg ggcttncttt actttctgtc tcaacgcgag ctttgaacac 60
 tgttcttcct tcccgcgatg cttcttttca tgtccgcctg agtgggctta tagcctaaac 120
 catacttccc acgatttcct tgggtattta tcacgctagt tatgccgcca ttgtctttgc 180
 ctaaaccat cccgggttca taaccgttcc ccaacataac tcggggccatc attaccgctg 240
 cgtcggac 248

<210> 462
 <211> 216
 <212> DNA
 <213> Glycine max

<400> 462

taataaaaat attattttaa atcattaatt gagtattatg aattaatata attgttaaaa 60
 aattatagag tattagaaga caacatttgt attaaaagcg actctattat attgtagata 120
 aggtcaaagc tgttattgtg aggttcgtat atattgttag gaagttataa atttattacc 180
 tcattaagta tatttactat gaaaaaagtg actcta 216

<210> 463
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 463

tctagccaaa tggacttacc ttgacttaat tcctttgata gcccttttga gccttgtttc 60
 ctttcccttg ttttgaagct cactacaagc cttaagtga aaaccatgat atcactatat 120
 ctttaaggaa ttttggagct ttggaattgt tttgggaata agtgtggggg attttgtttc 180
 attggataac atgttttgtt ggccatgctt cattatatat tttgagccat acttgataca 240
 cattgcatat tgggttaaagc ttggacatgc tgaatatgat gttgtttctc aaaaggctac 300
 agaaaaaaaa atattataaa aaaaatcgaa aaagaaaaac agtaaagttg agtgaataag 360

aaaagaatga tgagactctn gggttctactc tnntatgtta aaatntatct ttacttcttt 420
 ttattttctt atgggttctt aatatgcac 449

<210> 464
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 464

ttcaggataa ggatgaaaga aggcaagatt gcacgtgtat ttgtctgcat catatgtcat 60
 agctagcgat aaatcgtaga cagtagcgat gaagcgggca atgtctgttc agaaatatgt 120
 cgggttgga cagttgggtc tcatttcagg catttgctcag gctggcttgc gtctcctatt 180
 ctcttcatag gaaataatta attcccaatt agcaaagaag attaattaat tgaatgcttc 240
 agaaatttcc tttaatcttg agtcacagct ttattattat taattatatt atttcttctg 300
 tctatatatt atatatcgct gtaacgcgta tcattcattc atcaaggaat ggtatctctc 360
 actgttaata gaaaactacc aacagtacag tttcttatct aaccctttga agtgcggagt 420
 acagttctta tc 432

<210> 465
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 465

ngaagtactc aagggatttg cattaggtag ttcgagcaat actccttgca gaatatcaga 60
 tcttgctgca aattcagaaa gactgaagcg actcagcata catataggaa gtggggctgt 120
 gatctaagaa ggagaggttg aaagcttgag agaactgtca tcacttgagc atctcaaaat 180
 atcatgggggt gtgtcagaca caaggtacgg tgatattcca atcagtttgc cttcagagtt 240
 aaaaatgttg caacttgaag gctttcctgg aaagaatttt ccagaatggt tgaatattca 300
 tagtaagcta tccagaaaat ttatgtcact atctacgata gggggaaaac ttgaaagtat 360
 ggatattctc aaatatgttt accagtacat ggggaccta ngtttcaagc atttgattct 420
 tgacacacca cnatttgga ac 442

<210> 466
 <211> 347
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 466

 tgcttggcaa ctgggttactg ctgaatcctc ttgggctctt ttgataaggg ctagattttt 60
 tagagggaac cacagagttg ctttccacgt ttcttcttct atatggtata gnttatgccc 120
 cttcttagat gttataactg ataactctca atggcaaatt ggttggtaaa aacattgcgc 180
 tttggactga caaatggctc tccaacccc taagtgcatt tgttgcatat tcttgaatcc 240
 tatcatacca atttaaattc cacagtggca gactatattt ataatggtgt gtagcgcatt 300
 cctcaatctt tgcagcaatt atatccgact ttgatgaatg aaattca 347

<210> 467
 <211> 415
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 467

 ntataagcgc gggctctggga gacgaaggtc aagtggctgc gatatacgaa gatgatgttc 60
 cgagtacatt ggatttggtg cgaccatgcc ctcttaattt ccagctggga aattggcgag 120
 tggaggaacg ccccggcatt tacgcaacga gcataatgta aacctttacg gttttaaaag 180
 ctctatagtt gggcctaggc tttagagttt ttctttttgt taaggctttg tgtcttttgt 240
 tttgaattta taatacaagg atctttcttc atctgttctt acgtctctac ccattctcat 300
 tcatttgcatt gtttacttct ttttctgana atggcagatc cgatgacgag tcccctgaag 360
 gtactaatac ctgggacccg cctatcgact tcgagcaaga aatgagtcaa acgga 415

<210> 468
 <211> 329
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 468

 ntacagcaga atttagtaat gaccactaa cctagaatta aatataactt aatgccatta 60

acctagggaa ttaaaacaaa ctaaattggct gagtgtaact gaaattgttg gcaacaaaaa 120
 gtcacccccca acagccaaca agtcagccac catttggtct cccaaaaggc tgatgcctag 180
 gttgcccaatt gggcccttat tacaacttga actaaagccc ttttagttga ttaacccaaa 240
 acatattttt ggtcagccaa ctttacaagg attgggcat tatttagaca aactaaacac 300
 tctaaaantg aaataaagtg gtgtcattt 329

<210> 469
 <211> 359
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 469

agtcggcaca ttctggccaa ttgcatgtct ccttttcct tccctctgc tcattcgatc 60
 agctcttaaa tctaagaaca tccaagtttg aacgtgaggg gtgatcagaa ccaaaatggc 120
 caatcttagt agtcctggat ttaacctctt tttggtgtct ctcttggtta cgttgggtcca 180
 aatccaaacc aagggtgcaat gctaccagta caaagttgga gatctagatt cctgggggat 240
 ccccatattca ccaagttcac acctctacga caaatgggcc aaatatcaca acctcaggat 300
 cggtgattcg ctctgtaagt cctcccttga tgtccattnn tttattgaga catgttaat 359

<210> 470
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 470

cttgaggattt ccaagtgcc aatcgctctt ttctttagtc cagtcttctt ctggcttcaa 60
 ttcatcagtg ggctttcctt ctgtgtccag catcttgga tgttcccagc ctttgatgac 120
 agctttccag gttctgctat ccagtgattt gagaaaggcc accatccttg ctttccagta 180
 ttcatagttg gtcccatcca gaattggtgg tctgttcact ggtccgcctt ctttctccat 240
 gttcatcaga atttatctcc ctagatctca ctcatgatt tcgagtgcct gctctgatac 300
 caattgaaat tctgatactg nggacagatg tcgtacagga tgtcacgaca tcacgcttca 360
 gaacatgcag attatatattg acagtgtgaa caaattaaac aagttaataa cacaagagaa 420

ttgtaaccca gttcggtgaa cctcactaca tctg

454

<210> 471
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 471

ggctntgcan aatatatact tcattcagtg gaaggatgag aaataactaac tctntattct 60
tacaagttag aacatacaag aatgcaatca gatgttcata gaaatatttg ctgtaccttc 120
tacatcctca aatacactat ctctgattca ataaaactag agaatatcat tatacccatc 180
tctgaattga taaggaaaaa ggagttaaga gcttgattaa catcggcctc atttatttagc 240
aattttctgc aatatcaagg atcacgatga aacaaaaatc gcggccacaa tttaaaacct 300
tagcacagat gaaatctcaa gtaaacacat aacaataagc aaacacctac agcatgatta 360
acatttcaac attcaaagat cctcccatca caaccacat aaaactcata cctcacanaa 420
cacatc 426

<210> 472
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 472

gttgaatgca ttaaaggtaa acaaaccaaa agcaagaaat tgtgtgcata tagagctaca 60
gacgtcttgg aattgagaca tacaaacatt tgtgggccat ttcatacact ttcattggaat 120
ggcacaacat attttatata attcatagac gattactcca gatatgcata cttgtttctt 180
atacatgaaa agtcacaatc tttggatgta ttcaaacat ttaaagttga agttgaaaat 240
caactccaca aaagaataaa gtgtgtcaga tctaaccatg gtggtgaata ctatggcaga 300
tatgacggtt caggtgaaca acatccgng ccttttgcca ggtacctaga ggaatgtgga 360
atcgtccac agtacaccat gtcgngtca cctagcatga atggtgtggc tgaaagatga 420
aatagaactc ttaacgatat ggtaagaagc atg 453

<210> 473

<211> 432
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 473

 ntgagcaaat tcaaacgaac aataactttt actcggatgt cagattgagt cccgtaatat 60
 atcgaaaagc tcgaaattga atgttgaagc tctaagcaaa ttcaaacgac aaaaactttt 120
 tactcggatg tctgattgag tcccgtataa tctcgaaaag ctcgaaatgtg aatgtagaag 180
 ctctgagcat attcaaacga caataacttt ttactcggat gtctgattga gtcccgtaat 240
 atatcgagat gctcgaaatg gaataccgaa gctctgagca aattcaaaca ataataactt 300
 tntactcgga tgtccgattg agtcccgtaa tataatctgaa cgctcganat tgaatgtcga 360
 agctctgagc aaattcaaac gacaataaca ttttactcgg atgtctgatt gagtcccgtg 420
 tataatcttga cg 432

<210> 474
 <211> 368
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 474

 tccaccggtt gtgattgcga gataatattc gtggaggag aataaggaat cgtatgaaga 60
 cagtacaagt ggaggtttca atctcttctc cgtctctctg acttttggga attctatcgg 120
 agtagtcgga tgaataattg aaagaatttc tgggaaccgc tagagatgtt gttatcgtg 180
 gctgaagaca cgtgagcccg cttagaggta agggatgagt ttatcgcaaa tgggattaga 240
 atgaacatgt gtanggatcc ttagagaact aaatttgggt taatttgcga tggttattga 300
 aatataattt ctctttatga ttataaatat aatattaatg gggcttatgt accaatgatg 360
 ttctgatg 368

<210> 475
 <211> 409
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 475

ntgagccaaa atcctgactc accatanacc ttgaccagg gtgagaatgt caatccttac 60
 cctcggaagc gaaaagaata gaagggaat ttccaatcaa agaaaaggaa agaaggaaga 120
 tttccaatca aagagaaagc aaaaaaagaa aagaaggaaa attcccaatc aaagagtggg 180
 agaaagcaaa aagaaaagaa agaaaattcc caatcaaaga atgggagaaa gtaaaaaagg 240
 aagaagaaga aggaaagata gtcctgatc agggatcgaa agaaaacaga agaatgtgc 300
 agaaaggtct ttggaccgga caatatctga ataatacaga gttgtcacca aatgaacaaa 360
 aagaaggaaa ggaaaccacg acctanaatg gtcttctccc tttgattac 409

<210> 476
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 476

tgagtgtcca catgggtgca tgcgatgatca attntgtata agtttctaaa tcatcgttgt 60
 tatatacgtg tcatggaaat aatgtggggc acttctttt atccctgaac cgctggccaa 120
 agcaaatacc ctgacatacg tcatgtcttg ctttctttaa agcctctttg ggacaaaacc 180
 tcaatccttc agccctaagc ctcgacccaa ggtaggaatt tttaccctta tctcgaaaa 240
 aaagaagaac aggaggatct aaaaaaacg agaggaagaa aaagtttcat ttacttttaa 300
 gttatgaatg tgccttaca ggaaaataaa aagagaaaat cccaatcaa agattggagg 360
 atagcaaaag aaaaagaaaa agaacaattc ccgatcaaag atcggaagaa agcataagaa 420
 aaatatacag aaag 434

<210> 477
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 477

tgctcgtaa gcctgtgctt tcttcttgag tggttgcgct aagctcggct tgccgcacta 60
 agcgctaatac tttctttgtc ttaaaaaatt gtggaattag gcttagcgag caggcttcct 120
 aagcctattc tgcagaaaaa aagattttat gtgttcttgc gctaagagca tggctatcac 180

gcttagctta tgagtaaaat ttcataaggc gcactaagtg catctgctgc gctaagcgcc 240
 caatcttaat tctagattta ttttttgctt ttcttttggga ataattcttg tctagtcttg 300
 gcttttgatt cttttgtttt tcagatggct tcatgaaaga ggaagacaac agctgcagta 360
 ccccgaggccg gatatgacat atctagattt acatcccaag aggcattgtga ctgctacaca 420
 tataat 426

<210> 478
 <211> 514
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 478

atgtctctgg gcccttggac ctgtanancc tcttttgnnc ccttgaaccc ccgcggctat 60
 ttaaaaaaac ccgcacctga caagaaagca ctgtggagat gcttaccacc tcttatgact 120
 ggaaagcggg ttctaatacgc tcctctgcgg tctccacata aggcataatag gaagggcagc 180
 tcaccaagat gtcttactcg cctgatacga tgaccagatg cccttncact acaaatatca 240
 acttttgggtg gagcggagag ggaacaacta cactgagtg gattcacgga cgccccaaca 300
 gacagctgta gaggagggtta atatccatta tttggaaagt cacttgacag gtgggagggc 360
 ctattcagtc tgggagaact attctcttcc caaaccttct cggggtggtc tcctggcaca 420
 acccactttt gaccatattt gtatgagaac aaagtcgctg gtcactcttt gggttaaccc 480
 atgaattgat taatgattgt gaatatatcg agag 514

<210> 479
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 479

ctattacgtg aactatgaa actaagctnt aacanatgtc ttcacaaata atcatcacac 60
 agcagaaacc tagcaagact acccatcata tctcccaaaa ccccataccc acaaaaatta 120
 aaggagaaag aagtcacccc aaacctgaat tttcgaagtc ccactcgtag ccacgcactt 180
 cagacccccg aaaatgcctt cttttcgcca tttggggcag aaatgatggc caaagggttga 240

agctttgctt ggagcttcaa tggagaatga agaagaagaa aatggcaacg tgagagagaa 300
 agagagcttt ctgaaaagtg tgggggctga gtgaagagag agaaaagctt tttggtnta 360
 aataaatggg gtntctcttt ttctattatt ntatttaagc aaatgccaca tgtctncatt 420
 tgagtggagc aaaaagggcc cacttttcct tttgac 456

<210> 480
 <211> 519
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 480

tcccaccgtt ttttgaagca tgctattagg acctatgaaa ctaagctgtg cttanaggaa 60
 aacttanata aagataactn tcatttcaca tgtaggtgt agctggtgta ttcggcggct 120
 cctgtataag gataaggggc gaaaagtaat caaatagaaa ttaaactaag aaggcaaagt 180
 gtgaatgtgt taaattgtca ataatctcac ttcaaccatt caacacagat acataagatt 240
 atttcagcct aatcgataat ttttaattta aatataagta tataattgta ttaaattattc 300
 aaaaagaaaa ttttgttaca caatcatatt acaatcaaat aaaattgtgt ctccgggtag 360
 agatacatat agtccctact caaaaaatcc catttcaaaa gtaaataagg caaattacta 420
 atgttgaaaa gttttgtaat catgaaatat gtcgcttcct tactagacct gacagggtcat 480
 ttaatatatt attatcaagn attgtttacg cctatgaga 519

<210> 481
 <211> 245
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 481

tgagctgcan atgttgcttc accatctgtc aactgtcacc tgtacaactc tggcacgtgc 60
 ccaagtgaaa tgcacatgtg ccttatctgt aactacacat ggcttcttta acgtcatcac 120
 gagaaagagc atgtacgtgt agggcttccc aattaacaat ggaagatgta ggaggcatga 180
 catataatcc antgtgtgat ggaggagag gggttgggaa agaaatgagg ggtggtggta 240
 gggggg 245

<210> 482
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 482

ctgcccattt aagttttgcc agcgaanaaa tcgaagtggg tctgagaaga ggcaaatttg 60
 attatcctgc tttgatgaat aggaagcttg gggcaaattg agagaataag aaggagggaa 120
 aatcagtcct tctcattacc caccacccta ccagccatga acgcctaata atccacaaag 180
 gccatcccca aatcagccaa aaatccaccc gatgcacatc caagaccaa taccaccctt 240
 aataccaatc aaaacaccaa ctagggaagg aattttccag aaaagaagcc tgtagaattc 300
 accccaattc caatgccata tgttgactta ctcccctacc tgctcgacaa tgcaatggta 360
 gttataagcc caacaaaaat ttctcaacct ctgtttccca gaggatacaa ccncaacgtg 420
 acatgttctt atcatggggg anngtttggg c 451

<210> 483
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 483

tctataaaag gttcgttctt aattttctta caattgcata acctctcaat gagctggtga 60
 agaagaatgt ggcatttacc tgnngtgaaa aacaagagca agcctttgct ttgctccaag 120
 aaaagcttac taaggcacct gttctagctc ttcttgattt ttctaaaact tttgataata 180
 ttagggactt gtatgcttta gatgaacatt tctctcccat ttacgaaagt tgtgggaaaa 240
 aggcccaaaa tggattctat ttggctaagg ggtatttgtt caaagaggga aagctttgca 300
 taccccaagg atccattagg aaattacttg ttaaagatag ccatgagggt gggctcatgg 360
 gccacttttg gatagacaag acgctcgtct tactcaaaga anagttttat tggccccata 420
 tgaagaaaaa tgctcttaag cattgcact 449

<210> 484
 <211> 405
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 484

actctcttat cgaatggtgt gccacaataa catcaacatc gatttgatga ttgcatgctc 60
ccttttctga tcttataggc acgttacagg gacgaaatca ttatttaaact atttaagtgc 120
ccaaagattt tgattntaag agcaaaaataa aataaaaaaa atactgaatc atgtggagtt 180
tattgaactt catatgcccc agtagagtgt catgcatggt aatttaaact gaatcaaact 240
aaactgtacc ttacacatta gtaatgtaat tagtaagact agaagcatct taatgagggtg 300
gcagaatnta attaattatt tagaaacatc ctaatgaggt ggcagaattt aattaattat 360
ttgatttcaa tatttttcat actaatttct tctnctttat ccctt 405

<210> 485

<211> 398

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 485

tgaagagagt tcttccatgc cagcacgcgc ccaacgtgta tgtagctcgc taagcgagat 60
ggttgctctt tctgcgctaa gcgcgagatt gccgctaagc caaatctcac ttactcgcac 120
ttagcgcgag aatggcatta aacgcgcctt catggacagg aagccctttc ttaagcctga 180
cttacagaaa atgaagggga gggctggaag agagcgcgtga atagccgtca gagtttgaag 240
agtgaatac acaaaggcaa ataacagagc anaggagcca agttttgatc ttttaggaag 300
atgtgtgagt ctttgagtga ttgtgagatt cctagagggtg gaggagacat cctcactcct 360
ttttagcaa gcaatntctc ttaattcctc ttctttca 398

<210> 486

<211> 382

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 486

tcattgatca attctgaagt tcacaattgt cataagttca tgaaaggagc aaaatggttg 60
atcaagtggc ctcagaataa ttaagaaggg gggttgaatt aattattaat gagcctttac 120

taatcaaaaa cttatccttc ttaatgttac tagattcaat taggcctttta ctactaagtt 180
 aagaaagtaa agaacagaaa tagaaactta atcaaatgta aaagcaataa ttaaagtgca 240
 cagcggaat taaagagtat aggggaagaac aagacaaacg caagaattnt atactgggttc 300
 ggcaaaaactc atgcctacat ccaatcccca agcaacctgc ggttcttgag atttctttca 360
 accttgtaaa atcctttaca ag 382

<210> 487
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 487

nttggtctta gaattaatca tcaaaagtct catttcattg tgtctaagaa tattccgaga 60
 aggaaaactc anaaatttgc tatatcttgg gtttccaata tatactcatg atattggtaa 120
 atatttgggt ttacctataa ttagtggaag agttaaaaaa aaccacttct cgtttattct 180
 ggataaagta aatgatcgt gagctggttg gaaatcgaag cttctcaata gacttggtcg 240
 ggttacactt tgcaaatatg tcttcaattt tctccttaca tatgtcatgc aaaacatgtg 300
 gctccttcaa ggcatctgtg attcccttga tattgctact agacaattca tctgcggatc 360
 aacttcatct cattgggtga gttggaagac tnatcatc 399

<210> 488
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 488

tcttggaat cctcattcca gcgatcagtt tggtnnttgc gtaagagttt gaacaacggc 60
 tcacaaatgg cggtgagctg cgatatgaat ctggcaatat aattcaagcg tcccaggaaa 120
 cctcggactt gcctctctgt acggngttct ggcatctcaa ggatagcctt caccttttctg 180
 gggctacct ctatcccttt ctggcttaca acgaaaccaa gcaatttccc tgatttgacc 240
 ccaaaggtag acttagcggg gttcaacctt aattgatatt tcttaagcct ttcgaacaac 300
 ttccgctggt tgacaagggtg ttcttctctg gatttagatt tagcaattat gtcgtccacg 360

tagacctga tctcttgatg catcatatca tggaac

396

<210> 489
<211> 383
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 489

tcatggtgaa tcaaaggtga ttcanaggtg ttttgatgat aacaatgatg ataacaaaag 60
atgatgacaa aggtgatgac aaaaagctca aagatcaatc aagaacaatt caagagttca 120
agataagaat caagaagaat tcaagactca ataagaaagt ctagagacaa gaatcaagat 180
tcaaggttca agatctcaag aatcaagaac aagattcaag actcaagatt caagaatgaa 240
gagaagactc aatcaagata agtattaaaa agtttttcaa aactttgaa agcacatgag 300
tttttgacaa aaacttttac cagagttttt actctctggt aatcgattac catatagttg 360
taatcgatta ccagtagcaa aat 383

<210> 490
<211> 346
<212> DNA
<213> Glycine max

<400> 490

tctacttatg tggtagggcg ggcttccctc actttcttgt ctccaacgcg agctttgacc 60
actgttcttc ctccccgcga tgcttctttt catgtccgcc tgagtgggct tatagcctaa 120
accatacttc ccacgatttc cttgggtatt tatcaggcta gttatgccgc cgttgtcttt 180
gcctaaacct atccccgggt cataaccgtt cccaacata actcgggcca tcattactgc 240
tgcaacggac agacaaggtt gcccagagag ggagtccacg gaggaatgc tgaccacctc 300
ataagactgg aaagcgggtt ctaacgattc ttctgcggct tccaca 346

<210> 491
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 491

tgaaggtaaa aggtttacac agtttcatgt taaaagttac tgacatcctg ctgctaatag 60
acattagacg tagctntact cttagtaaga atattagaac aacacagcaa aaaaaacact 120
ttctatgcat tgagcaaagc tattcaaaaa ataattatgg attagaacta agttttcaca 180
aatcttaagc aagcatcagt aacatcttta cctgcagcac tagaaagaac ccaattgtca 240
tcataaggaa cttgccacac agcatagcca agtaacttat tttcccttgc ataagaaacc 300
ttcatntga caacctcaac atcatcataa cctatccaag tcgatccatt ggagaagtaa 360
ttaactacat aagtagcatt gtacttgaca t 391

<210> 492
<211> 454
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 492

ctcagcttan atatgttttc cctcanatga nnactaattt agttntaacc catcaattaa 60
aaatttgctt tctacaaatc ctcaaattca ctttgaggca ctgaaatcaa cagttttacga 120
atttgagtga tttaaaacat aaattatgct catgtaacct ttcatgaata aagactaaat 180
tattcattca aaaagaataa atactgaaac agtatgaagt taatgaattc attgactaag 240
taaataataga aggacaaatt aaatacaaaa attatattat atgcaagtaa tcttttaatt 300
ttaatataaa attaattagc acacactatc acttttgaaa atgatataata tatatatata 360
tatatatata tatattaatt ctaacattag tattcgtata gtatacacgg attgttaata 420
ataacaagtg aacaacaata acagtaataa taaa 454

<210> 493
<211> 386
<212> DNA
<213> Glycine max

<400> 493

tgcaacttcag gacgtgcaat gctggtaaag aattgtggca ctgaactact tgagttgtcc 60
tcaagggtaa ccctttgttg gtgttcatca tccatggtaa tggcctctgg taagtttgaa 120
gctgattccc ttgataatgg tgagtcagat gatgaagaat cagaaaaatg agtttcttcc 180

tcaagaatgg atgctactgt cctgtcttgc agtaattttc ttctcctttt ggctctgttc 240
 cttcttaatg tagcttcaat ctccaagtcc aaaggaacta aattgcctgt gggagatcta 300
 tgcattttaa acactaacag aaacaacagt tatccagttc aagaggaaaa aaaatatgaa 360
 ttaaaagcaa atattcacag ttaatc 386

<210> 494
 <211> 443
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 494

tagccgaatt catattgaat tgaagttagc ttagctcaac cttggccagc ttagtggacc 60
 aaatcaacct tatgcaaggg ttgggcgcta agcacttgag actcacaact tagcgcatga 120
 accgagatgc gcttagcgta aggcttgcgc ttagcgaaag gactattttt cagagaaaag 180
 ttttctgtta ttttctagtc ctttttccaa gaaattgaaa cttttatgtt aaacattcaa 240
 agatagggtg atatactcct atgtacagat ccgacagcaa gttccaaatg attaaatgca 300
 tgaaaaacaa agataacaaa atttaaaact gggttgcctc ccaggaagcg cttctttaac 360
 gttattagct tgacgctntt accttactgg atgatcttat gttttggttc ttactttcag 420
 aacctcttga cctccttcca tta 443

<210> 495
 <211> 369
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 495

nttagcttct ctaggaatct tctcaaggaa gtttctcaag gaagcttctt aatgaggtga 60
 gcttagttat taggtgtgtg tagctaagtc tagcttctca aggaagcttc tcaaagaagc 120
 ttctcaagga agtttcttaa ggaagcttct caaggaagtt tctcatggaa gtttctcaag 180
 aaattttctc aaggatgcta cctaggctat aaataaaagc atgtgtaaca cttgttgcaa 240
 ctttgatgaa tgagagtctt gtgagacaca cttcaaagtt caacttctct ccctctttta 300
 caccttcaat ttcatgctcc ccctctctc tttctctctc ttttctttt tctccattga 360

agcttccta

369

<210> 496
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 496

nggatgaagt tegaaatctc ttcctttcttc atctctaaat ttcattccacc accacttgca 60
tcaccaagga gagctccaaa actgtgcttt cctcaagctc ttactctact ttctcttaaa 120
ctctctacta tgagtgtttt taagtgtgtt aaacccaaat aatccttgtg gtatttatag 180
ggtaaagtgt aggcataagg agtaaataag accaatgagt gttaaggatc atataggctc 240
ttaggttaca aattaattgt tcttatcttt taattntatt tttttctttt cttttattaa 300
ttagatatcc tagatgcttc atgggttatt agagtagaga ttggaatgta tgtatacatg 360
atattgatga tg 372

<210> 497
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 497

tttcgcanag cttacggtaa aatctaggac atagccatgg caaagggtcta cacagaggcc 60
attgcctccc tcgcccagta ttatgactag ctgttgaggt gcttcacctt tggggacttc 120
cagctatcac ccatgggtgga agaatttgaa gagatcctag gatgccctct atggggaagg 180
aagccatacc tcttctcagg attctatccc tctttagcta gaatttctaa gatagtccaa 240
atctcggcgt aggaattaga ccacagaaa caagtcgaaa atgggggtggt tggagtaccg 300
agaaaatggt tagaggcaaa agcaagaatc ttggcaggta gaggcaaagtg ggccccgttc 360
atagacatcc tcgcactttt gatcttc 387

<210> 498
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 498

tcagcatctt aaacagaggc taaaaatctg aagtaaagac aacatatgag acctgtgcag 60
catagtcaaa cagcttcaat agaaactaaa tgacttggag aattctatgc cagttcaacc 120
ttctgaacaa caagtgaagg acctcaagaa aaccaagct gacctttggg aaaaagctac 180
tatgcaggag tctattgtga ggcagaaatc aagatgtaga cggatcatag agggggacag 240
caacacatcc tattttcata gagttattaa ttgaggagg aagagaaatg ctctgagggg 300
gttgacagatt ggtgacacct gtgtggaaaa tcctaacatt atanaagctg aaacctttca 360
tcattttaga acaggttcaa tgagcctcac ttgaccagac ctaacttga tgggggtttc 420
atttaaagtc tgacttattc tcacag 446

<210> 499
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 499

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ttgccgggtg agctgggagg caagatcctc ccctattttg gctataaaag ggtgtgggag 120
gctaagggga aggggttcag cacccttggg cacttgcagc agacaaggaa agtgctcgtt 180
aactgtatg caaaaagtac gacattggca atgagaagtg ggctcaattt tgtcagaccc 240
gcagagaccc ttcgtgggag gcaacgtttt tattttcatt gttntaaact ctaaattcac 300
ttagtataat acattgtaat gataactttc aataatggtt aacttttaca ggatatgoga 360
aaaaaggcat aagccatcta aaaacaaaac actgtccctc ac 402

<210> 500
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 500

tgcttgtggn gcttctatgg aggctggatc ttgagcttc aatgaggtcc ttcaatggtg 60
attttcgacc atggagatgt agcagaaggc aaaggagaag aggagagagg aggcaccatc 120

cacaagggaa taagccaagg aagaaggagc ttcgccacca agatgagcat tggataagaa 180
gcttggagat gatgcttcaa tggaggaaaa gaaagagga gagaaagaga gaggaggag 240
cacgaaattg aaggaagaaa aaggagaga agttgaactt tgagttgtgt ttcacaagac 300
tctcatccat caaagttaca acaagtgtta cacatgtttc tatttataga ctangtagct 360
tccttgagaa gctntcttga gaaaacttcc ttgagaagct tctttgagaa aacttccttg 420
agaagctaga gcttagctac acacacccc 449

<210> 501
<211> 373
<212> DNA
<213> Glycine max

<400> 501

tgagtttaac gatgacaaat attcaagaag caaacattaa gttatccgaa ccaagctatc 60
tagtattgat tgcttttaggt gttctttata acatacgact aaacttataa gaatggggaa 120
gatgtggagc agtagcctat ggtagaaatt ttccagacat agattctgcy taatcaaaaag 180
caaaactact agaaagagag tggctctaatt ttagatggaa aggaacacac gttttatgag 240
tgaaactgaa aatataacaa gctatatatg atcagaagca tgatgttagg tatctttggt 300
aaaggagcat atattagaag ctacgcatga ctaagggatc atccaaagta ttctaattca 360
aaagtcatga gaa 373

<210> 502
<211> 320
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 502

ntngagatca aactntacca ctggtaatcg attacaggaa actggtaatc gattaccaga 60
gagtaaatac tctggtaact tagaaaaatt tggaaaaact tttcttgtaa aacaaaattg 120
tgctatgttt gggttttgaa aaatcttttt caatacttcc cttgcgaagt cttgacttgg 180
tgctttttgg tttcttctct tgaatcttga atcttcttga tgacttttct ttaatcttga 240
tcttgaactt gttgactcaa tcatgacatt attcttttgg catttttgaa atcatcaaaa 300

ctacttgaat tattcttgat

320

<210> 503
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 503

tgggtggtaa aaananaaat ataagaaaaa ggtgtatgtg tattttggga ggagccctgc 60
cgattcctaa atcctctttt cagaggaaaa cgtaaagaa atgctactgg aataagataa 120
gataaaaaat ggagatgaga gcatgctcca ctgattagat tctgtaagcg ttagctacta 180
aacttcatca acaacatggt aagtaattat ggcaacagtg atcgaaccaa aggaatatgc 240
agacaagata gatagagaga aagggaaaaa aagtcaagtt aagtgagtgt catcgttgaa 300
aatcaatata gatgccaggg acggctctgt aaattcagta gcccacctta caaataagtg 360
ccctaattat ctgaacactc ttctcaaata atacattcac aaattaaaca gttccattag 420
taaaaatatg 430

<210> 504
<211> 463
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 504

tattggccgt tggatgaaac tccacacagt gcagttctat gttcacttgt agaggatctg 60
aatcccagtt taccagttgg ttgttgccgt taaccaacaa atcttatttt atgttctctn 120
taatatttct ttntaattga agatgcttct ttaccacaca gaaattgtat atttttcatg 180
caagtataac agttaaata gaatagtagtta gtttaattgt atttcgaatt tttttttata 240
attaaattat aagtgatttt ttagtttcta tggaaaaaat taagttgggt aagtttttta 300
ttttaaaaat taactaaatt tattcattnt gtcaaattnt tacttaaaaa ttntcaaatt 360
tttaatttta tctacatatt taggagttta tgaataaatt gagttagaaa ataattntaa 420
aaattatang taactttatt agaaaaatta gtaaataatta atg 463

<210> 505

<211> 406
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 505

tcttcacctt tgctcagagc tggtaattga acttattcta aaattntgtc ccttggtcca 60
 aaattatggg tgaattttca ttagattatt ttttcgcttc acataaaatg attctttgat 120
 catgtgagaa gagaatgaag cctcagttag gacagttgat taaattaaga atagactaat 180
 aattacaggt agaggaagac caagaaagac tttggattct gctattatta gaattggttt 240
 agattttaa at ggcttctatg aaaaatgaaa aattgttttt taacagaata caatggcatt 300
 gtttgattga tataggttgt agatgacctc agtgggaaaa aaaactntgg ttatcactgc 360
 tatgtataaa tcattgatat tatttggtag caactcttat ggtaaa 406

<210> 506
 <211> 460
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 506

tagcccctaa cgaaagatga accgtgtcaa gttgtacact atgtggagat cattgtagga 60
 gtagaagggt ccgaggagtt agagttggac ctgagaacca atgacgacaa tcgggttaaa 120
 ccaattgaag aaacatgtaa ctttcagctc gacattaaag aggaataggt tacttgactt 180
 gggaaccaac tctcaatgga atataagaat gacttacaac aaattatctg agcacatgcc 240
 gacctgtttg catggttcga ggtcaacatg ctaggcatag atccgacctt ccattgccat 300
 aaattatcca taatttaaga tgccaaatta tatctcagag gaagagaaag attgngaaag 360
 aaagggtgta ggtagtgcgg caagaggttt ccaaactggt ggcctaatta tcanagaggt 420
 agagtacacc acatggctat canatctatt cctagtaaaa 460

<210> 507
 <211> 459
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 507

attaactaac aattc

435

<210> 512
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 512

tgtgaatnta tagtgtttgg tgactaattg tcacaaaaaa gcaaagtaaa gcccaaagaa 60
gcaaaattaa agatctaaaa ttactcgctc agcatttctc aggtgctcag cgcaacgcag 120
atgcttagcg gacaacgcac gcttaacgcc agaaagtatg aagacgtctg aatcatgaat 180
atgtgcttag cgcgagtcac tcgctaagcg cgagattact atcatactcg ctaagcatga 240
aattgcactt agcgtgaagg ttacgtaaaa atcaaactga actacaccta taaaagaagg 300
agagagaaaa agaaaaaaaa tacacttaaa attcaagaga atacaattcc ttacagaagg 360
caaaggtcga aagcaggaga agcaaccatt cggag 395

<210> 513
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 513

tggtaaagaa aatgatggca tgacttttat ccaatcttat tatgttgaaa agctattgaa 60
gaagttaaat tattttgatg cgaaacatgc tcttactcct tatgactcat ccatcaagtt 120
aaagaaaaat ttgagtaaat gaatttcttt acataaatat tctcaaagta tcggttcttt 180
gttgcathttg acaaacttct ctatgcctgt ctgatattgc acatgcagtt ggtagattgg 240
aaagtaattg agggatttag tgatataaaa ttgaagttct gattntgatg aaataaaaaat 300
gagaagtggg tatgtctttg ctttagctag ttgtgcagta tcatgaaaat ctactagaca 360
agttattatt tcacatgana gcaaaaatta ttgctttaaa tactgctact ag 412

<210> 514
<211> 320
<212> DNA
<213> Glycine max

<210>	515
<211>	371
<212>	DNA
<213>	Glycine max

taggaacca	nacttgtagc	ttcaatgcaa	ggaaacgtgc	ttatggctag	gaatccaaaa	60
at ttgggtttt	agaattagaa	aagaatgaaa	atagggactt	gtttgtaaga	at ttgggctg	120
ccccatgatt	ggtactttgc	acctaaataa	catgggaaat	gattttcaat	gctgtgtaga	180
tatatgtgta	aatatgaagg	gcatgaaatt	ctttgcaaag	gatgaaggaa	tattgaggtc	240
acttctctaaa	tgaatgtatg	atagcatggg	attccctttt	gaatgcaagt	atgtgcataa	300
tg ttaaatat	cttgccaata	ggcataagtg	tgagtgaaac	aatgaaaagt	tgtatggtat	360
atatatcttg	a					371

<400>	516
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214

cgacctgttt gcatggttcg aggtcaacat gctaggcata gatccgacct tccattgcca 300
 taaattatcc ataatttaag atgccaaatt atatctcaga ggaagagaaa gattgggaaa 360
 gaaagggtgtt aggtagtgcg gcaagagggtt tcaaactggg ggctaattat caaagagtag 420
 agtcaccaca tggatatcaat ctattctaga aaaaa 455

<210> 517
 <211> 461
 <212> DNA
 <213> Glycine max
 <400> 517

tgcttgtgga gcttctatgg aggctggatc tttgatcttc aatgagggtcc tttaatggtg 60
 attttcacc atggagatgc agcggaagac aaaggagaag aggtaagagg cggcgccatc 120
 cactatggaa taagccttgg aagaaggagc ttcaccacca agatgagcct tggataagaa 180
 gcttggagag gatgcttcaa tggagagaaa gagagggggg ggagcacgaa attgaaggaa 240
 gaaaaagga gagaagttga actttgagtt gtgtctcaca agactctcat tcatcaaagt 300
 tacaacaagt gttacacatg cttctattta tagactaggt agcttccttg agaagctttc 360
 ttgagaaaac ttccttgaga agcttctttg agaaaacttc cttgagaagc tagagcttag 420
 ctacacacac ccctctaata actaagctca cttcttgat a 461

<210> 518
 <211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 518

tggagaggat gcttcaatgg agganaagan naaaggagag aaagagagag gggggaggac 60
 gaaattgaag gaagaaaaag ggagagaagt tgaactttga gttgtgtctc acaagactct 120
 cattcatcaa agttacaaca agtgttacac atgcttctat ttatagacta ggtagctttc 180
 ttgagaagct ttcttgagaa aacttccttg agaagcttct ttgagaaaac ttccttgaga 240
 agcttctttg agaaaacttc cttgagaagc tagagcttag ctacacacac ccctctcata 300
 actaagctca cctcttgag aagcttcctt aagaagattc ttaaagaagc tagagcttag 360

ctacacatac ctctctaata gctaagctca cctccttgag atgagaagct agagcttagc 420
 tacacacccc gtataatagc taagctcaca tgaaaataac 460

<210> 519
 <211> 405
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 519

ntgagccaaa atcctgactc accataaacc ttgacccagg gtgagaatgt caatccttac 60
 cctcggaagc aaaaaaagaa tagaggggaa atttccaatc aaagaaaaag agaaggaaaa 120
 tttccaatga aagcaaaaaa agaaaagaag gaaaattccc caatcaaaga gtgggagaaa 180
 gcaaaaaaag aaaagaagga aaattcccca atcaaagagt gggagaaagc aaaaagaaaa 240
 gaaaggaaaa ttccaatca aagaatgaga gaaagtaaaa aagggaagaag aagaaggaaa 300
 gaaagctcct gatcagggat cgaaggaaaa acagaagaaa tgtgcagaga ggtctttgga 360
 ccggacaata tatgaacaat acagaattgt caccaaata acaaaa 405

<210> 520
 <211> 452
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 520

acaattatct aatcattcca atccactcaa atcatacagt tgctcattca aatcattctc 60
 aaacactcat ttcatacaaa acaatccact gcatatcggt ttcaatcagt tctctgttca 120
 aacaagcttt tttgtacatg caaacaactc atagtactaa aatttaaaga acggaaacat 180
 aaaaactgaa atttaaatga ctgaacataa atcataaaat aattcaagta aactaaaatg 240
 ttcaaaatgc acaaatttaa atgtcctgct tctgtggttg ctcttgtgca tgcttattaa 300
 gatccaacac ctgagcaact ggtaaatcct gagaggtagg tttctctaac tcacatgttg 360
 gtgaagatgg tatggcatca tcaggatatag gtgctgggga tggctctggg atctggtctg 420
 tggaagtctn cttctcttga gccatgtgta ca 452

<210> 521

<211> 391
 <212> DNA
 <213> Glycine max

<400> 521

tcattctcta tcttgagact cttgtgttat taattactgt ataaacctta gggttttctc 60
 attcctatct tctgcaaatt ctctacaag gctagaaata tttctgagca aatataccag 120
 attttgattt tgattctttt agcatgcaac tctatattaa tgctgctgca ttgtaatgat 180
 cacatttgca acttactaaa atgcggcgca gcttaagcat ttgaatgctt tttgaatcac 240
 tgtatttggc gtatttggtt tggccgtag ccaattcaat gcgtggatat atatcgaca 300
 cctacaccgg agatatatat cagttatggc tttgtgttca agttttctca atcttcatct 360
 tctggttttt gtttggttga cgatagaagc g 391

<210> 522
 <211> 418
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 522

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 cagtttatgt acaaaagaaa aaaaaagttt aatttttatg tatcaagtat acgaaatttt 120
 ataccatcaa ccaattaaaa gttatatata attggaataa ctattataat aattatcata 180
 aaaatcaata aatttatcat tcatatattt caataccaat agccactata taattactgc 240
 atgctcaatg agaattaaat tgacatgtac ctctgatcgt atagtgtgta tgaatctgcc 300
 atctcttctg attgaagtag tgctaaccac gttaagccct tctttaagca gaatgtccaa 360
 cactcttgac atgggaaaca aacttttccc anagctgtaa ctgcacataa tctcaagt 418

<210> 523
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 523

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gcagaggagc acaaaccaca gagtctggcg acaggtgcag attttttatt catggccagt 120
 tgggttacca ggtaaccaa tgcatttagt ttaccttcaa gcttcttagt ctcacctgat 180
 gaattcgtgg ctacttcatg cactcctcta atgacaatag catcacttct ggcactaaat 240
 gtgtgggagt ttgaagccat cttcttaatt aaatttcttg cttcagcagg ggtcatgtct 300
 ccaagggctc caccactagc agcatctatc atactttctc ccatgttgct gagtccttca 360
 taaaaatatt ggagaagaag ctgctttgaa atc 393

<210> 524
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 524

tctaaactnt aaacaaaaat gaagctaaac tntaaacaag aatgaagctt cgataccact 60
 tgtagacaa gtggcctcag atatcttaag aaggggggtt gaattaagat attacaaact 120
 attttcccaa ttaaaattct actttgattt taatgcaagt tcaaagttcc cttaaagatt 180
 aatttctaaa tgatgattca aaataaccaa actgaatgta aaagtaaagc aacaataaat 240
 aaaagagttt aaggggaagag agagtgcaaa ctcagtttta tactggttcg gccacaccct 300
 tgtgcctacg tccagtcccc aagcaaccca cttgagagtt ccactaactt gcaaaaaccc 360
 tttacaagtt ctgaaccaca caaggacaac cc 392

<210> 525
 <211> 209
 <212> DNA
 <213> Glycine max

<400> 525

ggagaatttg taagacttaa ttcaccctc tcttaagtta ttgaggtcac ttggcgcgca 60
 cacagatcaa gaataaagct aagtcttact ctatctttgt taaaagagtc tcttagtgat 120
 tggaagaat tggcctcaca acattgttct taaattgatt ataaaaaggt tctagaatac 180
 ttttaacaat ttttggataa gacattttt 209

<210> 526
 <211> 431

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 526

tgagcatagc agctntgtta attaccttgt gagagtgaac accaaggcca cccaaatccg 60
 taggcaaaca aacctttttc caaaaaaaca taacaagttt tgatcagtta tccctttccc 120
 ctgtccagat gaagttttga atccaagagt caattatggt caataatgta atcggccatg 180
 cataaatgtg aaacgaataa agcaacaagc tctaaataac aaatttgatg agaaagctat 240
 tgtgtgatca acgctcttac aaacaaaatt atccacactc acaacggatc gtgagaatac 300
 aacaaagatt ataccataga aaaataataa caaataanaa tttaacatga ttcgacacat 360
 cttgcctata tctacggagc tggttcaaaa atattgtttt atcatataaa taattacaag 420
 aatggaattc a 431

<210> 527
 <211> 330
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 527

tgttgcagac aaaaatctnt ggctagaatg ccgcanaaat ggtctacaaa acatccatcg 60
 gttttcttgg cctgaacact gccgcaacta cctctcccat gttgagtatg gcaggaaccg 120
 ccactccaca tcccgcttgg aaattacacc aatgactgaa gaatcaataa gtgactcatt 180
 gagagatgta gaagacattt ctttttagatt ctccacagaa ggagactcca agcagaatgg 240
 agagatggac actgcagcaa ggcagaagca aattatggaa gcaatcatgt gcagggtctc 300
 ttccactggc aagtctaatt ccagttactt 330

<210> 528
 <211> 450
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 528

tatcaaacca tatacaagga tcaggatccc ttttatatct aaagtaatta tgttcccact 60

gccatcgaac aaattaaagg aatacccaag aaaaaattgt agagcttaag ttgatgttac 120
 tttttcattt gataataaga tttatttggt aaattgaata gatacttatg gttaattctaa 180
 tactctttat ataacacaaa acccatcaat ttgcaggaac ttaatgttcc tgagcatgat 240
 gttgagcagc tattggtgtc actgattttg gataatagaa tccaagggca tattgatcaa 300
 gtgaaccggt tcttagaacg ctctgatagg tcttgccgtt atattttgat ttgttaaatt 360
 aaattcgtca tattcatctt tcttttatat aaaacataat atntactaac atattcacgg 420
 tccaggtcga aaggaatgaa gaagtacact 450

<210> 529
 <211> 416
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 529

aggatagaca aacagcgcta gnccaatcaa ttgtggggct ccaaactcga tggaggagga 60
 tgcataaatg acaagcaatt catggggctc cggataagat ttgaaggtag aggatagatg 120
 aacagcacta ggcaatcaat tcgtggggct ccagacttga tggaggatga tgcataaatg 180
 acaagaaatt catggggctt tggataatat ttgagggtgg aggatagacg aacagcgcta 240
 ggcaatcaat tcgtggggct ccagactcga tggaggagga tgcataaatg acaagcaatt 300
 catgngctc cggataagat ttgttggcag gactgaatgg tccaccggtt tttttccac 360
 cctaaaggcg aacatgtttt atcaaggaan aataaatcat tcatgagagc actata 416

<210> 530
 <211> 221
 <212> DNA
 <213> Glycine max
 <400> 530

gcagaattta gtaatgacct actaacctag aattaatata acttaatgcc attaacctag 60
 ggaattaaaa caaacttaat ggctgagtgt aactgaaatt gtggcaacca aaagtcaccc 120
 ccaacagcca acaagtcagc caccatttgg tctcccaaaa ggctgatgcc taggttgcca 180
 attgggcctt tattacaact cgaactaaag cccttttagt t 221

<210> 531
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 531

tctgaacatt agctagagcc aggtcaagag gtgagctcgg aatccctgct agaaggtact 60
 gttctgatgc taanactatc tacttgctcc ttttaataat atggaagaac tttagaatct 120
 agttcaatga tcggcgccat tatattgaaa aacatgaatg ctctctttct ttatctctcc 180
 cttgtatata atctctaata actaatttgc caatatgtat cttgccattt attgatcttt 240
 tagatttgca ttaaattggg taccacttgc gtgaaagggg atttgggtct tttgtttttg 300
 ttggtatctt attgctatct aattcgatgc tctcataaag aactagtgc ccaattgcat 360
 catgtctaac tgctattatt tatagccatt gcgaaacatg aatgctctct ttctttatct 420
 ctcccttgta tataatctct 440

<210> 532
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 532

tagacggcaa tttcgagcgt ctccatata tacgggactc aatcagacat ccgagtaaaa 60
 agttattgtc gcttgaattg gcctacaggt tctacattca atatcgagcg tcccgatata 120
 ttacgtcact gaatcggaca tccgagtaaa aagttattgt cgtttgaatt tgctctgagc 180
 ttcaacattc aatttcgagc gtctcgatat attacgggac tcaatcagac atccgagtaa 240
 aaagttattg tcgttggaat tggtcataa gttcaacatt caatttcgag cgtctcgata 300
 tattacggga ctcaatcaga catcgcgaga aaaagttatt gtcgcttgaa ttggctaaag 360
 gttcaacata taatttcgag cgtctcgata tatttcggga ctc 403

<210> 533
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 533

tattaaggga tcatttgtcc tttggagtgt tatagctcac tttgaactgc ctaaagtgca 60
 caagaagtga gatcaaaact aaatgcatga gcatgtcttc gccagctct agcttaagcg 120
 ttttaagtttt gatgccaagc tagacatttc cattatgtac tcccttatat tattcttttc 180
 cttatacttc ggagattcat gatcataaat gttattatct ctgccttctt gtttttggca 240
 aagtattggt caatttcttc aagaaatttc tttacatttt caccctcaca aatagagccc 300
 cgaaacgctt atggaataga acacttcatg gtcataatgc acattctatt ggaacgatcc 360
 aatttctcaa ttttggcctc attagagggt ntcgaagtgg atcgttcact tactaaaaat 420
 agactttcaa catcggttat taatcgat 448

<210> 534
 <211> 398
 <212> DNA
 <213> Glycine max
 <400> 534

ctgatgcaac atttggagag gttaaatgaaa caacgagatg atgcacttca tgagagggtg 60
 gatcaaatgg agaatataga tcataatgga gaagaaagga ggagaagagg gaataatggt 120
 gttcatagac aaaaccgaat tgatggtatt aaactcaaca ttctccctt taaaggaaag 180
 aatgatccgg aggcctactt gtagtgggag atgaaaatag agcatgtttt ctcatgcaac 240
 aactatgagg aggacaaaaa ggtgaagctt gtcgccgagg agttttccga ctatgctctt 300
 gtgtggtgaa acaagctaca aaaggagaga gcaagaaatg aagagccaat ggttgatata 360
 tgggcggaga tgaaaaggat catgaggaag cggtatgt 398

<210> 535
 <211> 405
 <212> DNA
 <213> Glycine max
 <400> 535

tcgtatggtc tgaaacaggt aaaagggcat ggtataagga aattgacagt tattttctaa 60
 aaagaaggtt ttaagaagag tgaaaatgaa gtcactttat atgtgaagtg ataaaaaat 120
 gaagtgcaac tcattgtttc cttatatgtt gatgatttat tttttatata tagggaatca 180
 aattccttaa accaattcaa gaatagtgga accttgaga atctttatga tagatacaat 240

taatgtataa gaaaatgatg gagagctacc atgtcgaaga tcaatacaat aaatataaac 300
aacatttgac agcttctaga aagagaaaac aatcaaaaagg caattggtgt aagtgggtta 360
caaaacccaaa gtaattctaa tgggttcgca acaactcact agatg 405

<210> 536
<211> 405
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 536

tccgctntca atgtcgagca tctcgatata ttacgggact caatcaaaca tccgagtaaa 60
aatttattgt tgtcagaatt tgcactgagc ttctgttttc aatttcgagt gtctcgatat 120
attacgagac tcaatcggac atctgagtta aaagctattg ctctttgtat ttgctacgag 180
cttccgattt caattacgag cgtctcgata cattatgggt ctcaatcggg catccgacta 240
aaaagttatt gtcgttagaa tttactcata gcctttattt taaattntca acgtgtcgat 300
atattacggg actcaatcgg acatccgagt aaaaagttat tatcatttga atttgctcag 360
agcttctgtt ttcaatttgg agtgggtgtcg ataaatgtgg gactc 405

<210> 537
<211> 452
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 537

tgaagagcct cctcaatcaa actgaaaaac ctatattcct caatgaagtt agcacccatc 60
ttttcataaa acttgatggt gagaatattc caatcaagca taaccactt gacccttttg 120
caccctattt ttagggcttg ctttgccacc acagagagca acattctccc aagccccttc 180
gtcttataac actccctcaa gaacaagttc tccatgtaaa accctcgctt ctctagaacg 240
agagagaagt tcggaaaaaa caagacaaac ccaacaatgg aaacaccttt gagggttntt 300
aaattgtagt ttctcgagat aactattact taatgggaat aataaatgaa taattaataa 360
ttatggacta aattataatt gggttaaatt ggaagcagtt ttagagaaaa ctattatttg 420
attggagtag tnggtataag ggtcaatact ca 452

<210> 538
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 538

ngaggagacg ctgaatcagt tgatgcagat atccatgtcc aactatagga gcacggagtc 60
 ctccaacagg aacctagaga tacaagtggg acaattagcc aaacaaatgg ctgaaagacc 120
 cactggcaac tttagagcca acacagagaa gaatccgaag aaggaatgta gggcgggtgtt 180
 gacacgaagc caaatgagag tgcaaggaga agcagagaaa gctgaaggag accagtctga 240
 ggaaggaagg gcagacaaag aagaagagaa ggaggaagaa gagaagaatg tcttaatctc 300
 tatgaccaan atccagctag cccaagaggc tagaaagaag aaccaccagc cccttctaag 360
 gagcctncat atccttttagt actatcgaag 390

<210> 539
 <211> 334
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 539

tgttcttgtg tgctctcctc cacctagatc cttaattgag ccagtaaaca agtcaaagca 60
 gtttggattg caattgttga agatctgac ttatggaaat tgttgaagag attgtctgag 120
 gcggatgaat ttttcgatga ccgtgatttt cttgattaat ggcaactgtaa ggtctatgtc 180
 ttaatagtga cagctttatt ttattntatt taaaaaaatt gtgcatcaat gtctcattga 240
 cataggactt ttccttgttt gcataaaaact cctttacatt tacgtagaac tctctcgcat 300
 ttgcataaaa tgttagcata tataactatt atgt 334

<210> 540
 <211> 321
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 540

caagcttaat ggatggttgc cttctgttnt acggttcttt gaagggattt cttattatcc 60
tagagaaata ttggtaggtc aatcccgtcc ttgatgattt gcggctgttt tttcctctc 120
gtttcaggaa aaactaaact atntatatgg gtctttttct tttccctctt ttattgcatg 180
gtttgttaat ggatgtacac caaagatagg gaaacaagtc taaagagagt cattgaaaag 240
aaatccctac ttccacggat gatctatctt tcgattaaaa gcgcttcagc atccatcaag 300
gagcatgttg aggtcaatgg t 321

<210> 541
<211> 213
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 541

attcattatg cgaataatg tgctgtaacc cattactaac caattcacat tattaagtag 60
tcgtctggta atcatgacac ttgttggtcc aacaaaaatc atttactggt gcaacataca 120
tgattgtcat aattgacaac acataatgac atgcatgcgt attanagttt gagcgcgaca 180
cacattgact gacttgacta cacattctga gtg 213

<210> 542
<211> 394
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 542

caagctttga gccanaatcc tgactcacca tanaccttga cccagggtga gaatgccaat 60
ccctaccctc ggaagcaaaa aaagaataga ggggaaattt ccaatcaaag aaaaagagaa 120
tgaaaatttc caatgaaagc aaaaaagaaa tgaaggaaaa ttcctcaatc aaagagtggg 180
agaaagcaaa aaaaaggaaa agaaggaaaa ttccccaatc aaagagtggg agaaagcaaa 240
aagaacagaa aggaatattc ccaatcaaag aatgggagac agtataaaaa ggaagaagaa 300
gaaggaaaga atgctcctga tcaaggatcg aaagaaacca gaagaaatgt gcagagaggt 360
ctttggacca tacaatatct gaacagtaca gaat 394

<210> 543

<211> 500
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 543

agcttcttga accgagtagt accgtgctat gctactgtgc gcaacatcgg accacttgct 60
 tgtgcttgan cgactacaca ttgtcaagat gttgcctgag caagatgaaa gccttggaag 120
 aacgaagtgt gcctctgtcg ttgtggatga tatcttcaga gatacctgag tgaactgtgt 180
 ctgaggatat cagacacctt tggactttca aggagttgag tcttatacta tgnatatgca 240
 tatacgtgag aatgaagaca agcatgagtg accatggctg agagtgtgag aacagaccgg 300
 ttactgcatt gtgatcatgt gaaagcatga ctcatgagtg ttatgcatac aatacaccac 360
 atcatagagg catatctgat atgaaacaca tgactatgca tgatgctgct acggtgatgc 420
 ttcatgccaa acacattcgt atatctctcg gtgaagcatg acacagcgtg gtcacgcaca 480
 cagagctcac tgtgagaggg 500

<210> 544
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 544

atgaagtaac cagctcgctt gagcgagcaa gttactttcg gatgaagcaa gcagctcgcc 60
 tgggcgagct actgtgcaac ctctaccctt catttcctat aaataggcat gaggggggct 120
 gaaggaacgg tccaacattt gaaatcaaga ggattagaga gaaatttgcg agaagatgga 180
 gaaaaaaaga agaaagataa aggttgagac gctttcgtaa cgtttctgtg atcgattccg 240
 agatcatttt tcacgtttct tcgacgggat agtttctatt attgaagcta tgaattcatt 300
 ctatgcaccc ttaggggacc atacttgctt tacatatctt catcttcatt cttctaccat 360
 tagngatctt tcttt 375

<210> 545
 <211> 276
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 545

acaacatcct anatagatta tatttatattg tagcananat taanaatann tttaaattta 60
agagagctng ataataataa aataaataag aaaaagaaaa aatagaaatc ttactaatac 120
taacagtctc tcaataaata ttctacaaaa attcttgaag atcttcctaa acatttgga 180
agtcttgcaa aaacacaatt ttntntaaaa ataaagtaca nnatttgga nacaagatca 240
ctaagaattt ggaacttctt aagtccaaag atcgac 276

<210> 546
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 546

atgcaagctt gtatattaga caagtcataa gtcacatgt tcatanaaca aatcatttgt 60
ctaagtcact ggcatctaga agtcctaatt ctctcgtaat ggtgtagaac gaatcttgt 120
gtagtgggtc tgtgaagata tttgcgagtt ganttttgggt atctacaaat tctagaacac 180
agtcaccttt taggacatga tctctaagaa gatgatgcct aatttctatg tgctcggttc 240
tagagtggaa aactagggtc ttagatatat ttatggcgct tgtgtgtca cattntatgg 300
ngatgtggtc taatacaatc ctataatcag atagttgtta tttcatccac agaactctgtg 360
cacaacaact accagcagag atgtattctg ctctcggtgt ggataatgct acaataattt 420
tgcttctt 428

<210> 547
<211> 298
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 547

accagtcac cctcattcag aagtagctct nttcttcctc tattgcctnt agttgaatac 60
acctttgttt ggttctctta ttggttctta accctctcat gcaacttctt taaaactct 120
gacctagatt ccccttcttt atgtataaaa gaagtgacta gtgtgaggtg aatgaggtct 180
aacggtgtta ggggatngaa cccatagaca acctcaaaag gggactgctt ggtggttcta 240

tgaaccaccc tgtttaggc aaattctaca tgaggaagat actcatccca agacttat 298

<210> 548
 <211> 376
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 548

ttcaacaagt gtatgaaatg catgtacttc tttatgatga gaaaccactc ttcgtcgctg 60
 acatgttgaa cactntagct ggaaaacact tctttgtgag acagagcaag tctatgcaac 120
 aaagtctctc ttttgatggg gattgaggaa tattagagct tggcttcatt tattcttcat 180
 aagacttggc agatcctact cgaatgtctc taaaaaatag atgttagaca caggattaaa 240
 tgaagtctta aatgtcaact ttaatatcga atcagatcat gattccatct tgcaatcgctg 300
 cgaaatatca gacgtagact ctgcgaaaca tgatntgata acgcatatga tgcaatcctc 360
 ctaaagatgg acccat 376

<210> 549
 <211> 273
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 549

ctgatcaaca catgcacagt ggccaaggat gcatgggaga atcctgaaac cactcatgaa 60
 ggaacctcca aagtgaagat gtccagaatg caactattgg ctacaaaatt cgaanactctg 120
 aagatgaagg aggaagagtg tattcatgac ttccacatga acattcttga aattgccaat 180
 gcttgcaactg ccttgtgaga aaggatgaca gactgaaagc tggtgagaaa gatcctcaga 240
 tctttgccta agagaattga catganagtc act 273

<210> 550
 <211> 339
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 550

gactaccaag ggacatcgga agaagatcgc tgatgtgcca ttattttctt cctatttctt 60
aaccctcttt gcaccattta agtattgatt aatcttaatt gtcaaattaa ttaagcaatt 120
ntattatttg ggccatttca gctcaatttg atgttttaaat ctaatttcac gaattaatga 180
agcattgcgc ttgaatccag aaatgggctt ggacttgaag agggcagact attntattct 240
acaaaattnt atcttatcta gactntatct tatctagata tttattagaa ttgatctcat 300
ctagatacta tttcatctag atcttatctt atcttatct 339

<210> 551
<211> 322
<212> DNA
<213> Glycine max

<400> 551

agtgcacatg ggctgtgta ctgcactaa gctacgatg ctgccttagc acaagtgcct 60
gtattcgcgc tgaacgcggc ttgagatgtg ccttcctcgc gcttagcgtg tgcttctcga 120
tgagcgggct gcgcactgag cagacagttc tcaactaatcc tgatgtaaaa ccttaccttt 180
tatattggtc tatatctacg tctttttatt tgtatccctc ttttatatct gcgatcatag 240
aaagagaact gtattttaaa ataacataat aatgctaaaa atactttaag gtagtttata 300
taagaaaact atattacatt at 322

<210> 552
<211> 286
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 552

ggagatgaag atgattgana agtactgtat ggattgtgtt tntcatggcg aatatgtgaa 60
tgtatgtata catgattntg atgatgtcaa aagaagaatc aaacaaggct catttgattc 120
aagattaata caagattggt tcaacaaata aagccttgat tcaagatttc ttcaagatca 180
agccttgctt canaatgaaa ggtttcaagt catccaaggc acatgtaatc gattaccatt 240
acatgtaatt gattaccaag gcacatgtaa tcattaccaa tacatg 286

<210> 553
<211> 369

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 553

agcttggttcg gntgatttct ttgataatgt tttgctcttt tgcttagaag gatttcttat 60
tntcctttga ctttataatg gttctcttgt accgactaaa tttcctcatt tatgagggaa 120
gaatgcgtct gttttatgta ctggtagat gagttcgtgc caagcttgaa tgaattctta 180
agaggggtgtg ttttcaaagn ttatacttta ctctgtatcc tcttggaat ttcagggttc 240
aagtgccatc ttcagcgtg atctttttgg tgactcaaga gancacaaca tcgatcttac 300
tgctgngac cttatcaatc gattatcttt ccaggtattc tttacctttt actcgaattg 360
ggaaattca 369

<210> 554
<211> 526
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 554

aggggnnnnn nnannncegc tgtcatgtnt tccatttatt tttcanctcg gnancancca 60
agacnnaagc nanatcctca gatggctcnt gtaggactag acttatacca acctacacca 120
tgggcacaac atgttgcaat cgaaaactga gtccgcacac ccctaactta agactaagtg 180
gcagtgatgc ttcatgcaag tgctggggca acagtacatt taccaatgct aaagtgacgt 240
aactaggcac acaaatggat gatcataccg agagcataca aacattaaga actgaattaa 300
gcattgaaca caggaaacac agtcaactag atgtacaagt aatgacatta gactatctac 360
agaaatcccc agcaaggggtg ttcagccagc cattacagaa aagctctaac agtgatgaga 420
ttacaaaacc taggcctntt tgcgaaagat gtcctacttg ctgcctctag agcggatttt 480
cgagataaga gtagggcgcg ctcttgaatc attgcaaagc atctcn 526

<210> 555
<211> 320
<212> DNA
<213> Glycine max

<400> 555

agcttttact cactgttttc atcagatata atttcccttc acgagataat cgccccctttt 60
 cagatttctt ataatgtcgc aagaatcagc agctccgaat tctgtatttc gattctactc 120
 ttgaagtagt attgacacat gccctttcgt gacaatttta ctgctatcgc cattcttatg 180
 ctcccataat atgaggctat actatgctta tcttaactcc gaacagtgtt gcgttatatt 240
 tatacaaata tataaccattt atactcacag tacgtatgtg aggggttaat tcctctaact 300
 cataagcacc attcgaatag 320

<210> 556
 <211> 330
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 556

gctctagccc tcgaattgtc aacataactt cgctagagaa actctagcga gtacatcgtg 60
 catatggaga acatctngta nagccccctgc acatagacca aataaccatc accaaactat 120
 ataattatgg tggaagtgtg gaacaacata aagatggcaa gttattaaaa tccataaagc 180
 cttatatctt agcagaaaaa ctcagaaatt agttaagcaa acatgttcca catatatttt 240
 gattctatgg tttattaaat aacagaagtg gagttnctct tcatgcacag tacacacttc 300
 aattatgaga cagatgttaa gtaatttaag 330

<210> 557
 <211> 303
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 557

agctntgttc cctttgcttg gatgtttgaa attctccaaa ttagtgactt aaaaaatgtt 60
 catacggcgg gttttggagg ttcacgtgat ataccctctt cttattccca aatgagagga 120
 ggccttactt aaaaccttcc cagcttcctt tccattgcta tctcatccat ccaaacatat 180
 ctagctcaat gagaagggat ccaggctttc attaactatc tagctgttat acaattgtta 240
 tatgtttcaa tgttttttgt gtatttcttt ccattntctt gcccncaact ccacatgttt 300
 ctc 303

<210> 558
 <211> 213
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 558

gcttattatt attccaataa cntgtgtgc ggaacaataa aaataacact cataaacata 60
 ttaaaaagca tttaacaatg aggaanaaaa tgtcatatac caaacaagaa gaatagccac 120
 aagagaataa caataaaata gtatttattt tctaaatcta cctncttatt acctaattag 180
 ctcaatctcg caaaattgaa aatgcacaat tga 213

<210> 559
 <211> 311
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 559

tgcgctaagc cactgctgtc ttgcttagtg ggatggtctc actaatcgca tggttcaggc 60
 ttagcgagac aacactntnt gaaccttcat aattntctcc tttttacttg aanatgaagt 120
 gaaatttaca ttaaattgaa taggaaggct tctagtgagc acaaatgata actaaactag 180
 aaatattttac aatcctacca aaaaataacc ataaattggg agaattatnt acattntgga 240
 cactnttcta tacaaaaatt agtcgtaaaa gacgactaac acatagtcac atatgttggt 300
 atgtaagtag t 311

<210> 560
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 560

ttcttaataa actnttaatt ggggtgcaata tttatgatga taaattattt cttttgaatg 60
 atatattatt tgtataactt aatanaaaat ttatataatt taagaaataa attgtataat 120
 taacataaac atatttgata aataaatata tcataataac tctcaatatt tgtcttacga 180

gaaatataaa catacattca ctttctcttt catctcattg tgcaaacatc tctctattta 240
 tttttcatta gactacttat actctattac ttatttaata ttgagaatta atgtgcgaat 300
 aactcatgag aattctatat aaatatactt tatactatga aaatatattt caaatactta 360
 ccggcttgga aatga 375

<210> 561
 <211> 335
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 561

tgtatggaga tctgagcact tcttctctct atgtcttcac aatcatctct taggcggaag 60
 ttgcagaatc atcatgatga agatactata ttengcacgt tatcgttgat attttggacc 120
 cttaccttga ttgcattgct taaatatgta ttcatactat tgtgtgctga tgacaacggt 180
 gaacgtatgc tgctgataac tttattctct tagataattg ttcttataca taggttacga 240
 tctgtgtgag tgtgagctga gtatgatact tgtgtcatca ggtggaacat ttgcctttat 300
 tcgctgctgt ggatgcatgc cacgcttaaa ttact 335

<210> 562
 <211> 298
 <212> DNA
 <213> Glycine max
 <400> 562

gatctaagaa taggaaaact taattatcct acttggatga atatgaagct tgaggaacat 60
 ggatagaata agaatgaagg aagaaccggt gctattgact gtttgtccta catggacaaa 120
 tttatcgctt acttaactat gtcaacacte aaccaatatt gattcttctc attgcccacc 180
 accctaccag tcaagaacac ccaatcatcc acaagggcca ccctaaatc agccgcacag 240
 ccctgctgtc ggacatacga tatcaaacac cactcttaac acataccatt acactaac 298

<210> 563
 <211> 270
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 563

cttcattcaa catgtcatat gaacaggana gantatacaa attcattaac aatcaagtca 60
cactaaacat tacaggacaa cataagccaa cctaaaatcc tagaatgcaa acctaaaaac 120
cagtctctga attgagcaga cctaaaccct aaacatctaa cttccaactc tggaagccca 180
agaacaaaact tcccaaagat caaatcccaa acccaacctc agaaccacaga aacgtatatc 240
tagctacatc atagacaaac agatgacagc 270

<210> 564

<211> 339

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 564

tcaagcttca gactttcgat tccgagtaag ttcctattct tgagattgat tttattatac 60
ganagtaaag gtgaggggtca ccaccgatat ttatgtttga attggataaa gtcattaact 120
gggtgtattgg actaaaatac tattaatata ttttgacata acaagttgta cacatgctac 180
aagattatgg cagaaattat cctgatagat tttttaaaga tttatgatag atttatagtt 240
cattatattt aatggattat atgtgagaat caaaacattc gaagtattcc tatgaatctg 300
cacgatctga aagagtttta ttaattctct ttttaacaaa 339

<210> 565

<211> 515

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 565

aggggnccat gacccatag atangcttag nattnttcaa ancattttgc aagaaantct 60
gctangacta tatatatgca tttttgtgta tgaaaacaag ttatcagatg aagctaggag 120
taggtggagg ggggtttaac tagtaattac cgctcttatt cacaattaat tagccttata 180
tattttttcg ggggacggtt ggtgctggtt cgaatcgaat gaaatctctc ttctgtagtt 240
tgccaaaaat agtttcttga gatcactttt atatttttta tttgtaattt cattcttggt 300
gaaccgtgaa ctacatcacc atcttctatg aataaattac ctctaattta tgggcttatt 360

ttctctctgt	ctataaaaga	ttaattatga	ttcttaataa	aataaatatt	tttcttaaag	420
aaataaccac	tataacatta	ttagatcctt	taagaatgtg	aagagacttt	ataacttagg	480
cgtatcttag	agtgcattat	ggaatttatc	caaag			515

<210>	566
<211>	206
<212>	DNA
<213>	Glycine max

gctagacatg aggaagcggt caagggtgaa acttcctgct tttattgttg accacagagt	60
ggtacctgga gatatgtcgc ggaggtcacg agaccttgct gacgtcaggt ggtgtgctat	120
tgcccaaaac caagcttgac cacatcccga cccaaccgg gcatagtggg acagtgagaa	180
cctgtgatgt acctaagcag gcgagc	206

ggttgaatta	agatatcaca	tactntntct	tnaataanaa	atctattttg	attntaaccc	60
anatcccaag	aattctttca	naatgaactc	ctaaataatt	atgcannata	aacttactga	120
atagaagcaa	taagcaataa	ccaataaaaag	agtttaaggg	aataaagaat	gcanactcag	180
aattatactg	gttcgcccac	atccttgtgc	ctaagtccag	tccccaagca	acccgcttga	240
gagtncacta	tcttgcnaaa	gcccttacag	tctgaacaca	caggacaccc	ttcttttggtc	300
agattgttac	acaa					314

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<223>      unsure at all n locations
<400>      568
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tgtgtcgtct gcatactgca atatgctgac tntgacttca tttctgcca cattgaaacc 60

ttgaaacagg ttnttatcca ttgcttcttt cnaccagcgc gttggtcctt ccacaagaat 120
 gttaaacagg aacgngata gagggctctcc ttgtcttaag cctctntggn gaataaactc 180
 aggtgtagga cttccgttaa ccaatatgga tatggaagca gactttatgc agccttcaat 240
 ccaagttacc cacctgtcac anaaacccat cctcttcaac aaatatagta caaactccca 300
 agatactgaa tcatangcca ttntataatc tactttgata 340

<210> 569
 <211> 240
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 569

caattggaag tgatcatgga ggtgaatntc ataatgagtc ttttgaacac ttttgtgaag 60
 aacatggaat tcaccacaat tcttattccc caagaacacc tcaacagaat ggtgttgtgg 120
 aaaggaaaaa tatatcccta taagaagggtg caagaaccct tctaaatgaa acaaggttac 180
 cgaagtactt ttgggcagat gttgtacata ctatntatta caccttgaac agagtactta 240

<210> 570
 <211> 351
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 570

tgcacaagac tctttaatat tgaagagtat ccttgtggaa ccttcttccg acgaagacac 60
 tgacaaaaac ttatcttctc cttcttggac aaggatgtg caggctgggg caagtaaatt 120
 ttcttcccat cagaccttgg atgcaattgt gatcgtatac ccatatcagc tagatcttga 180
 tgggtattca agccatcctt cgtcttgcct tgaatgttaa ggagcgtnc aatcacattg 240
 tcacaaacat ntttcttcac atgcataaca tcaatacaat gtctaacgtc aagatcacac 300
 cagtacagaa gatcaaagaa natagacctc ttcttcatat gcaactctga c 351

<210> 571
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 571

agctntgaat tctagtaaaa aaaaactcct catacatatt ctaataactca tgcattctttt 60
acattcaaaa ctggaaactt agattcctag ccatgagtca tccttttggc actgtagttt 120
agcttctaca aactaccac acactcaca tgtgcacaat ttgtttcgca agctaaattc 180
cacaaaatca tccgcaaag ccattgaggg atttcaccga acacttggtg ggcattatgtt 240
taagcatgaa aatcaaggga atgagggcaa tgtggcttgc cccattatct cagaatgcac 300
cctatgccta aggccatacn ctacaacccc acaattcaac aaaaacaagc aaattcaagg 360
atacatccct tcacgtttga gcaaataat gcaacttaga gcacaaaaat atatcaatgg 420
a 421

<210> 572
<211> 232
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 572

atatcagtat aactctgata tggcttacga cgggactcag ctgcagaaca tggttaaaaa 60
ggatagcgag tccttttaaag agtacgctca gctgtggagg gacctggcag cgcacgtagc 120
ccctcccatg gtcgaaaggg aaatgattac catgatggta gacaccttgc cagtgggtta 180
ctatgagaaa ttagtanget acatgccctt cagcttcgca gacttggtat tc 232

<210> 573
<211> 317
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 573

atctagaggt atacctagga tctctatcag acactatgct agatggcaca ccatgtaata 60
tgacaatctc actaatatac agacagggtca actnttccaa ggaagatatg atattaatgg 120
gaataaagtg agcagacttg gtcagcctgt caacaataac ccacatagaa tcaaaacctc 180
ttgggggttct aggtagtcct acgacaaaat ccatagaaat atatgtccat tgtcactggg 240
tatcttcaag ggggtgtaact atcctgaagg gctctgatat cttatactta tgacagacta 300

aacatgcata cacaaac

317

<210> 574
<211> 180
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 574

agcttgaaaa ataaatattt aataaaaata tatttattta ataaaaatat taatttttgt 60
ccaaaaaaat tattaaacta aaataggtgt taatttataa ntgggctttc tgccttaaat 120
aagctggacc ggccctggaa tgaaataatg ggaaataaag aaatttggtg aaaagtattc 180

<210> 575
<211> 380
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 575

gctgccactc aagagacatc tcacctatat ctntatttaa aactatcatg tacatctgtc 60
cattattcan aaataacacc atctaagcaa acttaactga gtagagacta gtactctcct 120
tcttccatac caatatgtcc tctcaatca gaatcaaatt aatacttcta aagtcatgac 180
cttntatcta agtaaattat tatatntatt tctcctaag atatagagat ttctncattc 240
ccatcaccac aatcaatntc cctccctccg gtcacctaaa ctttgacacc ctggctttat 300
ggctactaca anggtgtata atctagtata cttcctatat gtgaaaataa aaccacttca 360
cccgaacgtc ttgagaaaat 380

<210> 576
<211> 147
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 576

tcaagcttct tctggacctt gaacaagcaa tcaactttct ctgtcacaac catgctatgt 60
gctcgcgact ggtccctttc ttcccttcgc aacttgagct cactattgct accccataga 120

gctncgagaa atttggtccg gccatac

147

<210> 577
<211> 324
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 577

caccggtcac gtgtctacta tcattgttat aatctctntc tctggtttgg ggggtgtact 60
tgagttgccca agcctctcca tctttgngcg tggtctttga aagatccgtc cncctattg 120
cacacgttct gtagttgcat cctatccgaa gacattatac tgacactgcc taacgaaggc 180
caccactagg tccttccaag aatggactcg ggaaggttcc aagttagtgt accaggtaac 240
agctaccag taagactttc tcaggagaaa tgtatcagca gtttctcatc ttttgcgtat 300
gcacgcatct tccgacagta catc 324

<210> 578
<211> 215
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 578

gatccanaat cctgactcac catanactct tgaccaggg tgagaatgtc aatccttatac 60
ctcggaagca aaaaagaaaa gaaggaaatt tccaatcaaa gagaaagcag agaaaaaaaaa 120
aaaagagaag ataggatatt cccaatcaaa gagtgggaga aagaaaataa aaggagacga 180
aagaattttc ccaatcaaag aatgcgagaa agtat 215

<210> 579
<211> 270
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 579

ccaaaactca ttccgtagat ccctcttgta agactaagtt tcaatcttgc ttcaatcaag 60
ttctaaggca acagtacatt tcccaatgct aaagtcacct aactatgcac acaaatggat 120
gattagacca aaagcataca aacattaagc attgaacaca aaaaacataa tgaattagat 180

attaagtatt tacatcagtt gctcattaga aatccncaac tagggtgtnt agccagccat 240
 tacagaagag accctaacaa taataagctt 270

<210> 580
 <211> 440
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 580

gatgcaagct tgccctctaca gaggcataata tacgaanaat aatccacaca cacttgtaca 60
 aataaaaaga ataataaatc cacagcaaca accttatctc tgtagccgtc aacaccaatg 120
 ggcgaggtct gtataaccat tctctnttcc ttttcttttc ttcaattacc atcaatgtat 180
 cattccgggt tctgattttt ttttgtgtta taaatacgaa gagaaaaaac tagaggaaaa 240
 caaagtggaa gagaaaaaag cacaggaaga agaaaagaaa gaagaagaga caaacagag 300
 gaatcaaaag atggcaagaa atccaacgag gaatctgctc caccagaaat cgtgcaaggc 360
 acaaccttca caatgcatga acactttaag cagatttct gacatctttt ttaagntaag 420
 gactaaattt gcacacttat 440

<210> 581
 <211> 368
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 581

gagggagaga cagagagagg ttgtagcacg atatttaatg aagannaagg gagagaagtt 60
 gaactttgag ttgtgtctca caagactctc attcatcaga gttacaacaa gtgttacata 120
 tgcttctata tatagactat gtagcttctc tgagaagctc tcttgagaaa acttccttga 180
 gaagcttctc tgagaaaact tccttgagaa gctagagctt agctacacac acccctctca 240
 taactaagct cacctccttg agaagcttcc ttaagaagat tcctagagaa gctagagctt 300
 aactacacat acctttctaa tagctaagct caccttcttg agatgagacg ctagaactta 360
 gctacaca 368

<210> 582
 <211> 307
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 582

gtcgcaacgt gcccttcgcg ggcgagcgat ggcgaggctc acgggtgctc tttccaaagg 60
 aggaaagatg cgcggagtcg ccaccaacgt ttatttgtgg aaaacgtctg ataaaaccga 120
 aggaaactgg tcaaaaggaa aattctaagt tcgggagttg tatttacgct tgaggaaggt 180
 attagcacct cacacgtttg tcccatagga caacagtcta ttttttagaa ttgcggaatt 240
 gtgttatctt aacctttagt tctttttatc ttttgaggtc aacanaagcg gggcttttgc 300
 tcctaca 307

<210> 583
 <211> 361
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 583

tgccggtaaa tgtcgccaag gtagatataa ttagaagccc tcgctggtga attagtgaac 60
 ccagaatcat aagagaatat gaagatggag gaagccgcag gcagtggcaa cagtgcggt 120
 ggcaacaaat ggtggtggng agtggccagc gctgctcana tgggaatgng aattcgtacc 180
 ttgcgcaaag ggcacggagg cgattcgcgc ctcatgcctt tcanagcctt cgttgtagct 240
 tccctcttcg tcagcagcgc cgccttcgcc ttcgttctac tccccaagc taacggcatc 300
 cacagggtac tactgctctc atcttcattc ccatttctgg tttctaactc tctntatgtc 360
 t 361

<210> 584
 <211> 201
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 584

catcatcatt gtaactatag ctatccatta taaaatagct tagacaatct aggtctgctg 60

gcttgaatcg atacacacat actgtaatcg attaccagag cagtatttca gattatatcc 60
tcatcagtca canntctttt attggttctt gaatggccat canaggctta tatatatgtg 120
acttgagaca ncgaattgct aagagattnt cagaacanna aggtcttata ctcttanana 180
gcanaatcgt ttcacccctt taanaattcc ttggccaaaa cacttgatgat tcaataagga 240
attagttgag tgctcaaatt gttcaatcta tctcttcaa gagagaatac ttcttctctt 300
cttctntatt ctga 314

<210> 588
<211> 383
<212> DNA
<213> Glycine max

<400> 588

tgagagcgcg atcttatact gtgagagaac gactagctgc gagtaataat ctttgcac 60
atctctgaat tctagaatga aatgtataaa tgaggacatg atgaatgcta tgattgcaca 120
tacacaaggc ttttgaccaa aaagcttacc ttgaatgata attatatacct tcgcaccctt 180
tatgagctga atgatattgt caaagatttg aaccctgaac ttaaataata acctccagat 240
accttggttag attctaggag agcatatggc tcaaggcaaa ttaccgcaaa tttgcggagt 300
ggaactaatg ggatgcaaga aagaaataaa catcggcaca acaacacata tgttgtgtat 360
aacaataaag gagaatgaaa agt 383

<210> 589
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 589

gctctcttag tgggtgcttct tgcaagcnnn cttgttactt gtattgattg ttattntcct 60
gtgttgctca agccattcaa tttaacatat agttgagaaa ttgatcatca aatgtatgtg 120
catganaaat atatatgttg agagatattg gccttttcat gattagttnt ttaatccctc 180
ccagaagcta ccatggccac ccataatana tgccattcta aatttttgag tttcttacia 240
attaagtatg gacaatggac ctaagtgaat ggatttgacc tacgatagtt gatataattct 300

[illegible]

<400> 593

```
<210>      594
<211>      495
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      594
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<210> 595

<211> 390
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 595

 agcttaacca agaaaaaggc taacaatggt nttatgcaca attgaaggaa ataaaattca 60
 gaatttagga attcaagtaa caatccttca tacaaccaat atattacctt aaagagattt 120
 ttttttanag ttcttcaagc atcaaccatt caaccctaat ttgtctctct tntttttttt 180
 ttttaattnt gcttatacga atttctgttt tttttttata acaaagagat caaaaggctt 240
 aacttttgca atggttcagc ctaaaaaaa aacatgaaca agaaggtaat ataaatggca 300
 aagaaaataa agaaggatgt tacccaatat ttccagcaaa ggaagtgttg atcctagaat 360
 cggaactctg ataaccaa at gatatgaacc 390

<210> 596
 <211> 318
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 596

 cacaagtggg tttattcgat tattagagtt atctctttat cttaggagag tgattctctn 60
 attcttgggtg atcaagacac tctgctgac naggacttca caccttgtgt gtgccctcct 120
 ggnagagtgt tctttcttct atcatctcac ctgtctttt accacaattc agaaatcacc 180
 ttgccaaata tctgtgacat actccattac aactcaata agtattttga cctaatgaat 240
 tcaaacagac tttactcgtt gaatacctca tggacctgac ttcgtatgca tttatatttg 300
 tcgcacacta ccacgtta 318

<210> 597
 <211> 396
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 597

 aagctctact aaataagcct agacattaaa attttgatag anaaagtcac atgcatgttc 60
 cctgtatata gacaagattt gagttgagat gaactgaaga aagagagggc atatttagta 120

ctctagctag tcaaagtggg atatatatgt ctaataacga acctggtgct ccataatttt 180
 tgcaccccggt gtccgtgtttt gttgaatctc tccctccaac ctaaagttat atagtcagtc 240
 acaaaaagag tagtaacagg gttaagcata tatatgtgtg ttatgtcagt tatctttcac 300
 aaagcagtat atgctatata tatcgctcac agatcaaagc tgacgatagc taaacttact 360
 ccaataggtc tgatgcaaga acataactcat tcatgc 396

<210> 598
 <211> 511
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 598

cggaatgaac catgtagnac ccatacactat tacgtaataa gtctacagaa ataccagtca 60
 tgcatacttc caatcaatcc acggggttat ataacatgca aggtgtttgg gccactaaca 120
 tgaaccacat tcataaccca cctgtcaaga ttctgattaa tcaatgctgc tgcaaatctg 180
 caaaactcaa tatattgaag attgaagatt ctcataggaa aattcctaaa tgcatactta 240
 taacaagaaa gtaaataaga caaaaacaat accctccaaa acctgctcgc atgtccataa 300
 catttcttaa tctgatttct ttccagtgtg aaacacgaac atagcttgct attatttcat 360
 tccagtattt cgaatctgcc ctaaaaagct ctgatctgga tgtgaaagca tcaagctnta 420
 tgctttgaag cctatcatgt ggggtttgca aacgtgcatg ccattagtaa catttgctca 480
 tatccgttct tatgcattca gagatgcatg t 511

<210> 599
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 599

gagggactca tgggtcactat gaatgacaaa ttccgtggga taaaggtagt ggtgccatgt 60
 tcccacagcc cgtactaagg catacaactc cttatnataa gttgaatagt taagggtacg 120
 accacttaac ttttactaa aataagcaat tggatggcct tcttgcatac acacagcccc 180
 aatcccaaca tttgaagcat cacactcaat ttcaaaagat ttttgaaagt ttggcaacgc 240

aagtatggng gcattacgta gcttttgctt aagaacattg aaagcttctt cttgtttctc. 300
 tccccatttg aaaccaacat tcttcttgag cacttcattg agagggtgctg ccaatgtgct 360
 aaaatccttc acaaategtc tatanaaaact tgctaagcca tgaaaactcc tcacc 415

<210> 600
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 600

tattgtagcc gatgctctgt ctcggcgctca tgcattactt tctatgcttg aaacannaat 60
 gattggtctt gaatgtttga aaagcatgta tgataatgat gaaacttttg gagaaattct 120
 taaaaattgt gaagaatttt cagacaatgg tttctttaga catgaacgct ttcttttcac 180
 agaaaacaaa ttgtgtgtgc ctaaagtgtc tactagaaat ttgcttgatc gtgaagcaca 240
 tgangagggt taatggtgca ttntgtggtc caaaagactc tatagacatt acangaacat 300
 ttnttattgc ctcatatgaa aaaggatgtg cagacactct gtgaacatcg cattgtattg 360
 taaaatgcaa gtctaattgt aagcctcatg gattgatact ccattgcaat accgagtatc 420
 ttgattgtta tcatggattt gtttgggctg c 451

<210> 601
 <211> 322
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 601

tgcgcatact tcttcacgaa cgttcacttg cacaagacat tcttataact atgtaaaatg 60
 aacctatata ctattaatgc accttcgtta cctagattat ttacatgtac tatcaacgtg 120
 tatgtgttac ctacatcaca cacattttct ttgctagact cacatacatg catactctaa 180
 gcactgtggc tatcanaaat tgcatacgtg cacatcnttg gatctctaata acctatacat 240
 acacaaactt cataatgaat cttgactatc tacacaataa ggcgctacat ttcattgctgt 300
 ctttcaagtg ttgtgactac ct 322

<210> 602
 <211> 279
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 602

 gatgatgacc gataacccaa agaatgattc gaagaatgag tcaacaagtt caagtttcat 60
 gagaaganat caagaagatt caagaatcaa gagaagtttg atttcaagat tcatgagaag 120
 atgaattcaa gtttcaagag aagaaatcaa gaagacttca caagggaagt attgaaaaga 180
 ttttcancaa acaaacatag cacagttctg ttttcanaag agttttcttc acaatttcta 240
 gtaccagagt ttactctct ggaatcgata ccagttcct 279

<210> 603
 <211> 272
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 603

 gtctcaagac tggactaata catntgctgt ccaagtttta tggctcttgca ggtgaagatc 60
 ctcataagca tcttatgaag ttccatattg tctgttccac catgaagcct cctgatgtcc 120
 acgaagatca tatctttcta aaggtctctc ctcatctctt ggagggagtg gcanaagaat 180
 ggctgtacta ccttgcttcc aggttcatta ccagctgnga tgaccttaag aggggtgtct 240
 tggggaaatt cttccctaca tctatgacca ct 272

<210> 604
 <211> 512
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 604

 tggggnatga gactcctgat nacgtcttg antttacgga cncatttcaa tactcaagct 60
 tgtgaagtat gtatgttaat gaggaggagt ttaatgtggc attattggac ggatanacgg 120
 ggtgtcttag taggatgggt gtgcccgcct acacactcat taatatttta taaagtgtaa 180
 aatgtatgc ttcaacattg aattctgaga tagagcacga agataatatc taactgatgg 240

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<223>      unsure at all n locations
<400>      605
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<210>	606
<211>	369
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      606
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250

ttaagtaca

369

<210> 607
<211> 367
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 607

agcttgctc anagatgtcc aggaaggaca atgtctcaga aggaactagt tccgctccgg 60
agtatgatag tcaccgcttt aggagcgcgg tacaccagca gcgcttcgaa gccatcaagg 120
ggcggcgtt tctccgggag cgacgcgtcc agctcagga cgacgagtat actgatttcc 180
aggaggaaat agggcgccgg cgggtggcac cactgggttac tcccatggcc aagtttgatc 240
cagaaatagt ccttgagttt tatgccaatg cttggccaac agaggagggc gtgcgtgaca 300
tgagatcctg ggtaggggt cagtggatcc cgctcgatgc cgacgctatc ggccagctcc 360
tgggata 367

<210> 608
<211> 280
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 608

cttatcaagt aaatggatca ttcttaacgt ccaacgcctt ataatgatca cctttcangt 60
aaaaagaatc gcttgattca cgcttaagaa agaactacat aggttcgatt tccatcatga 120
tgagggttac gtatgagcaa aagccccgct attgtcgacc tcataatata aaaagacata 180
atagttaagg taatacatat tccacaattc taaaaaatat gttgttgtcc tttgagacaa 240
acgtgagagg tgctaatacc attctcaaac gtatatacaa 280

<210> 609
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 609

agcttgatt tcaaattatta tgggtgtgcgc ttgttgtaac atgttatgtt tgctactgat 60

ttttaattct ttgacccttt gaatgaccaa attggctttc gatgtcttca tgagacttgt 120
 agagaatttt atccttttaca ttcaagcact ggtatcatgt tatttggacc attacaacat 180
 aatcaatcct tanagcattg cagtnttggt atattgtgag gacaaactga catctctatc 240
 ttcatgggtca gtttcttcca agatccaagc cttatttgcc catgacttct ccataaaaga 300
 tatatatatc tttctcttag ctntctacaa ccaactgagat catcccaaat tcacttttgt 360
 agctcaagta gttntcaaat tattgcacac atat 394

<210> 610
 <211> 525
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 610

agtgatgnnn tttgaaaccc cagtaagtan ccnttgcttg tacgcgatac tatacactac 60
 tcaagtgcgc catgccnctt gatatacttg tgggactcat ggtcactatg aatgacaaat 120
 tccttgggat aaaggtagtg ttgtcatggt ttcaaagccc gtactaaggc atacaaatcc 180
 ttatcataag ttgaatagtt aagggttagga ccacttaact tttcactaaa ataagcaatt 240
 ggatggcctt cttgcaacaa cacaacccca atcccaacat ttgaagcatc acactcaatt 300
 tcaaaagatt tttgaaagtt tggcaacgca agtatggggg cattagttag cttttgctta 360
 agaacattga aagcttcttc ttgtttctct cccatttga aaccaacatt tttcttgagc 420
 acttcattga gaggtgctgc caatgtgcta aaatccttca caaattgtcc ataanaattt 480
 actaagccat gaacacttct cacctttgtc acggacttan gtgag 525

<210> 611
 <211> 386
 <212> DNA
 <213> Glycine max
 <400> 611

atgcaagctt gcagatagat caatgtgagt caacttttat ctttgatcaa attataaatg 60
 tttgaattgt tcttaaaatt ataataaaat caaatatgat aaaataaaaa taaattctat 120
 ttctgaaaaa aaaagtcaat tctactttaa cctattgaat aaaattatct taattcagaa 180

ttaatttttt cactactgct aattcaaaca cacacttacc ataaacacgc gcgttgcaact 240
cgaaaatcaa ttgtctcccg ctccagcaaa atcaaattag taaagcgatt gccacataaa 300
tttatagtaa caaataacaa tcatcaatgc ctcaaagcta aaccccaaac catctttcttc 360
acctttttctc tctgcacacg aatatg 386

<210> 612
<211> 273
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 612

ctatatgata tagtgtattc tctatattat gttcgtatgt ggaggaggct aaattatcat 60
tctaattctc ttatagtntt aattgtgtaa tcttgattgt ataaattatt aaatatataa 120
acatttgctc ttattttatt ataactatata gattgtcttt acattattgt atatcattta 180
aatattatga ggatatgaaa ttataattta acctttataa aaatagatgt aacgcaacat 240
agagactgat gctactttga tattccaatt gat 273

<210> 613
<211> 273
<212> DNA
<213> Glycine max
<400> 613

tatcttgtgc attcaatatc ctgatgaggg tgtttcatat gttctcaaga ctggacaaat 60
acattggctg cccagtttct atggacttgc aagcgaagat cctcatacac atcttagcga 120
ggttaatagt gattgatcca ccatgaagcc ccctaattgt caggaagatc atatcttact 180
aaagtattta ctcatctctt ggaaggagag agaaaagaat gcgtgttcta cattgctgat 240
agatccatct ccaactggga tgaccataag aga 273

<210> 614
<211> 353
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 614

gagatcatcc nctcaacaac attatgggtg atatctcana tggggtaaca tctagacact 60
 ctcttaaaga tntatgcaat aatatggctt ttgtatccat gattgaacac taaaatataa 120
 aagaagccat aatagatgat aattggatca ttgccatgca agaagaatta aaccaatttg 180
 aaagaaataa tgtgtggaaa ttagtagaac aacctggaaa ttatcctatc atatgaacaa 240
 aatgtgtttt tagaaataaa ttatatgaac atgggtataat tattagaaat aaagccaggt 300
 tagtagcaca aggggataat caagaagaac gaatagacta tgaagaaaca tat 353

<210> 615
 <211> 122
 <212> DNA
 <213> Glycine max

<400> 615

tgctattgta acatccactt tattagcaat tgtggaatag attagaaggc cattgatggt 60
 gacgctaata ttgaagaagg aacaattcta ttatagaaac acaaggggaa ccattttttac 120
 ac 122

<210> 616
 <211> 345
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 616

cagtgtttat attgcggttc caatgtggcc agaggggttac ccagaacatg gaacggttca 60
 agcaatgatg gattggcaga ggagaacaat ggatatgatg tacaaggatg atgctggagc 120
 actaaaaggc aagggtaatg aggaagatcc tctcaactat tcgacattct tctgcctagn 180
 taatagggag ctgaacaaag aatgagagta tgtgccccca gaaagaccag atcctcatac 240
 agattatatg agagcacaag tgtcccgacg ctttatgatt tatgttcatg ccaagatgat 300
 gatacgcatg tctgttaatt aagtttacca catcttccaa gatac 345

<210> 617
 <211> 288
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 617

ttctaacaca ggtattttca cggattgtga ctgggatgct cttatactan gaagtctctg 60
cttatatant ttactttaga ttaaggagga cagatactaa tgctcctttt aacttgaaat 120
atccttcctt ccttcatcag agagcaagaa aaacttacta atggatggaa gcatctatac 180
catggttgc atacaatana agcaaaacac acaatctcaa tataacttct attcaatagt 240
tggccaaaga ctttcacaat gagaagagat tagatattaa tataaaga 288

<210> 618

<211> 459

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 618

ngcaagctnt ctaaagtgtt ctttgcccag tctcaggtag agtacttagg acatttggtt 60
tcgcatcggn gagtggagcc cttagcatca aaggctactg caattcagca atggccaatt 120
cctcgtacaa cgaaggccgt aaggagcttc ctgggccttg ctggctttta tcgcagggtc 180
attcagaatt atgccattgg tgtggcccca ttagtcaaag ccacgaccaa agaaccctg 240
cattggacat ctgagacaca tgaagccttt gacactttga aacatgcctt gtcaatagct 300
ccggtgttag ctttaccaga cttcaacctt cccttcacag tcgagacaga tgcgtcagga 360
gttggtatgg gtgccattct ttcacagcga ggccaccca tagcattttt cagcaaacct 420
tttagtgcca agtactctga tcataacata catgcgaga 459

<210> 619

<211> 492

<212> DNA

<213> Glycine max

<400> 619

cggaatgata cactttacta tctataatct cagctctcag gagctgagct agttattaaa 60
ggggtgtgtg tagcttatct ctagattctc aagaaagttc tctacatat tgttctcaat 120
ataacttctc aatgaacctc cctagtctat gaatagaagc atgtgtcaca cttgttgttg 180
ctatgatgaa tgatactttt atgagacaca ctacacagtt ccacttgtct tcctctacta 240
taacttaaac tgaatctacc cctgctcttt ttcttttctt acatttaagc atactctata 300

tgcttcttat ccaagacatc actcttgctg gtattcctct tctttcatga gctacatacc 360
 tatcggctctg tccaggccat atctatcttt cttaacactt tgtgcttcta tagttccaac 420
 atttcccttc tggtctctct tactctcttc atactgtctg ctgtggcctt taatgttcct 480
 ttctccttac cg 492

<210> 620
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 620

ctaagaagaa agtagaaaac atatcacctt tctatttaac tatcttttgt attgtatgct 60
 tggcaaactc gaatggtact ttcctctgtt tgggggtggaa cttatggatt tccatttccc 120
 aaaagggtga ctcttctgtc acttccatct tcatatgatt ttggtatgtg gcttcagttt 180
 tagccattat gtgngtctg tggcgcgcca attggttgac ttcaatgata aattgtgttt 240
 cttactcaac atcaattcat tggaaattaa tgctttcctt aactcagttc tatttgcaag 300
 aactagagaa tactatacac gtgtttctgc atgaacacca gctcatgcag ctacttcatt 360
 aacgcatata taattaaagt tggctctcag aatntctcca tatcaccaac tatgat 416

<210> 621
 <211> 328
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 621

atagcccag gactagagta cttgcataag ggatgcaaca ctggaanttt acattntgac 60
 atanagccac aacattcttt nggatgagaa gttctgctc aagatatctg attntgggct 120
 agcaaagcct tgtcctagaa atgaaagtat tatttccagg tctgatgcca gaggaacatt 180
 atggtatgta gctccagaaa atttggcaga atttcacaca natctgatgt aatcttcac 240
 tttanattta aaccacctaa accttaatgg gtaaaattaa ttctattatg cattanatgc 300
 atcttatctt tgacttgaac tctacaat 328

<210> 622
 <211> 439
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 622

ttatagacga atgtttcact tttcttccac ttctaccgag agacataaaa ttttcaacgt 60
 ctttcatagc atcaaaactga aaatctctaa ctgcccttcc aataactaatc gctgcctcaa 120
 caattccttt ttctcccatt agcttgctcc tgttttagtga cacaatgcga atgacaatgc 180
 agtttccaaa gtacgttgaa ggaatcgaaa attcgggacg gttacggcaa tctcccagaa 240
 acttcaagct gtaaatttca tcattattat tattatttgc aatagtata gcattgacct 300
 cttcttctga ttgaaccttg caaaccacaca tcanagcact tgtcataaca aaggttgata 360
 tgtgcaatga ctctaattct aaccataag tacttctaca ttcaatcgac acccatttct 420
 ttagcttcgc aacatggcc 439

<210> 623
 <211> 385
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 623

taaacctctt aatttagtca atgcaatttc ttttttatcc cttgttctaa ttacatgcat 60
 aatgcatctg gttntcctag tttttcaatt gttaaaatta ggtccatgat ctaatgtatt 120
 ttttgacatg atagtggctt gtctgacttg ccacatgata canagcaatg gcatgagttc 180
 actggttata gccactgttt tgtctgtcat tgtaagaatg nngaaattgt gaatatgaat 240
 aggatttgaa caagaatctg ttcttgact annaaatatt atttttatga cacattntan 300
 aacggtctaa tcgcttanaa tgtcagcttg tcaatttata ataatanag tatataatga 360
 caatttctaa atgtcttaca tggta 385

<210> 624
 <211> 335
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations

<400> 624

gtgtgcgttg agttgggttaa ggggtggttca cgttgtgatt ggcggaagtg gttgggttcaa 60
ctccttctac cattgggtgag ggaagttgaa tattacattg taaaaaaatc ttacatagtg 120
tcgcctttcc ctgtgaaata ttnttcgcaa tagaaactaa tcttctgcta gaattatgag 180
tgaaaaactaa ccaattaaat atttatacaa ttaatactta cagtatttct cataattaaa 240
taaactcatga tgatcaaata tatattctct tctaaaagag aatcaattca acatacacia 300
gtctacagga aaactatatt atgagtaaac tatca 335

<210> 625

<211> 514

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 625

ntganncccc tgttgaaccc tatagtatnt accngtcact atttcgtact caagcttatg 60
cttctaccgg ttntggacta ccaaattgtc aagttgtttt tgcattgaaca aaacaatcat 120
attcatctca caaaaaaaaaa tcgattccaa atcgatgttg ttggctaaag ataattgacat 180
ctcttaactc cttggcaatt gtatcaattc gttcaagtaa tagtttaaac gataaaatcg 240
agtgtgagtc cacaagaact ttgactgtac tcagagttaa tatatatcca attttaagta 300
ataaattaat tgaattgaat atttgttgag tgatgacgca taaatataat tttgatctaa 360
attaaactac aaaacanagc atgtgcaagg gtgagaaaac aaacactcaa aacagtgaag 420
taacgattga tgcagaatta tgaacatgtt ggggctcagt cagcctacca gaactactct 480
ngatgcaaca ttaaggatnt ntctctatct aacg 514

<210> 626

<211> 314

<212> DNA

<213> Glycine max

<400> 626

gacgaagcgt gttgtgaatg gcgtctcgcg tggctagcat ggtatcgaca gcatcattgc 60
gtgatgacca cttgatgtaa ttggagatgg ccggaggagg cttaccatat gtgacctcgt 120
atggagtga gtcgggtgccg gagtgctgag acgtgttgta agaccattca gctagggcta 180

agaattaaac cagtatgccg ggttggtgtg aacgaaggaa cgaagatatt gctcaatcgt 240
accgctcatc acttcggttt gcccatcgga ctggtgatga tacgccgtac tcatgcgtat 300
cgctgtccca ctga 314

<210> 627
<211> 264
<212> DNA
<213> Glycine max

<400> 627

agctgtagga cgtgaaatca tgtgcagtca tgtatcttat agtcctctca cggggggggag 60
gttggtccat gctctcagaa tgtgcaaaat cagaatgctc agaatcagaa tcttcagaat 120
cagaacgctt aagattatta cgcttccaat cgagatggtc atgagcacca ataacatact 180
gcacagattc atcatgagcg gcctgctccg gatgaccaa aggaataaca tgatgcctaa 240
ctcatctatg aaatgtccta tcta 264

<210> 628
<211> 522
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 628

tggggaatga tacctnagt agtangcgtg ctattacctg tcactatcga atactcaagc 60
tgggagagga tgcttcaatg gaggaagaga tttatggaca gatttataga gggggtagca 120
cgaaattgaa ggaataatat acggagagaa gtggaacctt gaagtatgtc ttacatgact 180
ctcattcatc aaagttacaa catgtgttgc acatgcttct ctttatagac taggtagctg 240
gcttgagaag ccttgttgtg aaaactgtct tgataagctc atttgtgaag cattacgtgc 300
gatgctagag cttagctcca cacaccggg tgataactaa actcacctcc tggagaagct 360
cccttaacat gactcctaac gaagctatag cttaactaca catacctccc taatacttaa 420
gctcaccttc ttgtaatgag aagactttaa ctgagctach tggcccctgt tgtagctata 480
ctcacacctg tgacaaataa gcaatggtat gcaatacact cg 522

<210> 629

atcatagcan ataattaacc ttctaagagc tntccgcctt ttagcanagg ctgctttaga 240
 cctgatcgat gaggtacaac tcccttaaca aggttccgtc aatgtggtcg attgattatg 300
 gagttaattt tcaacaactt tgtagggata tgcatacatc atggatgatc atcatacaca 360
 tacta 365

<210> 632
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 632

tagcttttgg ttttggtgaa cacaattaat ctattaccat gtaactgtaa togattactt 60
 ggggtgttgt gcgtgatgta atatgttaca tctctatgtc ttcacctcgt caaccactat 120
 tattactaca tttacttccg ccacccacct cagccaacta aaatgcctca gcctctcttt 180
 ataagccaac cttacctat gcacaaatca caccaacacc tgttctaaac ctctgtttac 240
 cacccttctc tgaatacaaa tatcttatgc tctcaaacc tctatctcct cttcaagatg 300
 acaacaatc ctttaagagc aaataatatg gaaaaatatt ccaagaagaa gcaaggagaa 360
 tgttcatagg atgttatcaa cccgttggac ttggaa 396

<210> 633
 <211> 517
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 633

gcgggaatga acccatgtga nacntgttg atacgatggc atctacgtga cactgtgtag 60
 tgctccagcc cgtgcgatta tgaggtaccc gtctcctgtg gtactaggtg gtattcgggc 120
 gagggtgcat aacatttctg acgatccacg gatgacctat aagcacccca tacgctagtg 180
 gcgccctatg gcagagctca ctatctcaca catgacacac atacgtgggtg gtgtaagcac 240
 cgggtacacc tcaagccttc tgagctttca catcatacaa gtaattcaac aattattgat 300
 ccgaactcac acatgatgag ctgaaggcgt aggcgcagaa ctctgctgga acacatacca 360
 gtctcccgac ttttcacatg caaatatccc atatgcattg gctatggctc acgacgttga 420

ccgtgtggat cgactagcat agactactgt gcgtatctag tacatattct acatcttgac 480
cgatgtgata tgctatagaa tggctagact cacgtag 517

<210> 634
<211> 390
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 634

cttgagctat aattcattgt ttgtggtatg agtctacatc aaacaattgt attattgatg 60
tttctgtcac aatcaagtga tagttgatgt ctccatatgt gcgtacactg tgattatggt 120
ttcgtttcta aaattcattn ggagtatcta ctgttgatgc tagatgagtg atccttcttg 180
atttacaatt attgtctcct aatcaatcga gtgttcacatc tattattggc tgctcatatt 240
ccaatcatgt ctagttaaaa tgcttgataa tctttcttgg tgttacttct aatacgaata 300
aagagagact tcgcctttga caatcacgtt aagatgtttt gagaggaaat acttgagtag 360
acatgatcat tgtacctata gacgaaagtc 390

<210> 635
<211> 252
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 635

gattgatagt tctaagaa taatcttata aagaatacct ttctcttag caatgaaaaa 60
gtgagtcctt attttgttnt ggacaacaca ccttctttg ttaaaggaaa catcaagtcc 120
attgtcacat aattgactta tgctaagcan nnatatgtta agctctttaa caaaaagtac 180
attatcaatg ggaggatagg gatcaatact tantctttca tactccaact atttctctt 240
ctatttctt cg 252

<210> 636
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 636

cagctccatt gatatcattt atttaatgca atgcacatgt ttcgaataag atttcttgta 60
 tcacaggaaa agatctaadc caagttgaat tacggatcat actgattgtg gtgcgaaaac 120
 tggcttgaag tagccatctg ggtaatatcc aaaccacgaa gtttcctctg gtattaaaac 180
 agtgtcgcgc tcacactgtt aatgtataaa ataagactac aaatatataa gctttcctca 240
 tgaaatcaat tagcaatatt ctattcataa tatcacaata atacatttag aggacttacc 300
 atgataagta ccanattctg caagctactc aatcttttct tgtaagaagc atttctctta 360
 tctggtattt cattgccatg cactggaaga aat 393

<210> 637
 <211> 391
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 637

gctgtctcta gatagacaat cttgccctcc tgaccttacg gtgacttacc actttgatnt 60
 ctttttttgt tggtagtaaa ctgtaccatt aaatataagc atcatataag aaactagctc 120
 acaagaaaaa tctggtaaag actacatatg annaaatagc gtgggtcttaa acaacaattg 180
 taacgtaata nactgaaccg ctgggtaatt tcttgaataa ataaattcag atcttcacaa 240
 tgataatttc ataaactctt actgtacaac acattgactg aagacaaaaca ttatgcataa 300
 aactatagaa gcatggcata tgttcatctg caaccaacag gaatgtatgt cacacattga 360
 aacagatatg tnntatctca tactcattct t 391

<210> 638
 <211> 416
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 638

ctgcacaagg ctcttaatat ttgaagagta tccttgagga accttcaccc gacgaagaca 60
 ctaacaaaaa cttatcttct ccttcttggg caaagtatgg caggctgggg gcaagtaaatt 120
 tttcttccca tcagaccttg tatgcaactg tgatcgtata cccatatcag ctagatcttg 180
 acgggtattc aagccatcct tcgtcttggc ttgaatgtta aggagcgtcc caatgactct 240

atcacagaca tttttctcca catgcataac atcaatacaa tgtctaacgt caagatcaca 300
ccaatacggg agatcaaaga atatggacct cttcttccat atgcaactnt gactattatc 360
cttcttttga gtcttcccag atacagtatt cacgtgttca acccgataat atacct 416

<210> 639
<211> 298
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 639

gttcttgacc atattgaacc ccggtgacaa caattgcttc aaggacagag acaatgaaga 60
ggtcgctgga caacaggatc aacaaatgac ctatagtatg gttcttgact tagatcgaac 120
ctgaggacaa cgatattaac caacagacca cacaacaaat gaataacagg acaagagaca 180
atggagctgc acaacatagg gttaagagag acaaatgatg agggaataat ctcanatacc 240
ttgcaagcat ggtagaaaact ccaaaccacaa actgagcata ctcaaattat ccaatctt 298

<210> 640
<211> 405
<212> DNA
<213> Glycine max

<400> 640

atcactatac acattagatc tgagtaagat ctactattga agtactaaaa tgtacacaca 60
catacctcgc cacaaagagc aatatacttg gaaagcagct tggtgattct atcctgctca 120
tctttcttga gaattcgtag tttctcttca ctcacagatc gtgcaagaag attcccaact 180
gcaacaaaat cacaaaaacta agctaaaacc aataaaattt caatgcacac acacaatcga 240
aattagagct gaaacataac tccaacttac atggtgtata gacataatcc ttggtactat 300
tgtgtgtgac atggagaaca gcaatggaaa ttggatgaga ctccacttct tgagagccca 360
attcatagtc ttaagtccat cttgcacatc attaccaaca gcaac 405

<210> 641
<211> 312
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 641

taattaagca atatggatga gatattcttc taattcagga tctaattata acatgatatg 60
atcaaagtga agaactaaca tcaactcaatt aagatatggg aattaaaatt acacagtatg 120
tgaatataaa gaaactcana ttgtatctaa actttctctt ctactaatat tactattaaa 180
taatatgttt taactatgcc tttaatgaaa gtgtgtttta actatatatt accaaagaaa 240
catagtgcaa cctatataaa acgtgtatnc gaacaaacct actatcagta agtatacttt 300
atacgttaat ct 312

<210> 642
<211> 482
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 642

tatgaccctt ganncccttga tccctgatta ctgcggntta agataaccgc angccgaagc 60
tgtatatgat ttatgaactg gccatcattg tccctatgca agtctngcac cttatgttgc 120
tggtcgacac aaccatcata ttccgactga gagtgtgtgc ttaaagaaca tcacgtcgaa 180
tcggccgcat cgctgtcacc gctcatatag agtaacatta tgtggactac ttatagcggc 240
gattacaggt ggggtggtctt ttcatatatc acatgctaca tccctttctc ctaaatgcaa 300
aagacttcgc tcgcttcata gcttatactt actctccttt gaangacaga cacatcacat 360
tgaacatcac caaaaatata ttttggcagg ctgccaaagac aaagacttat gctgtatttg 420
atgaccataa cttaataggt cacttccccg agacctagag aaaccgatct tcgacttaaa 480
cc 482

<210> 643
<211> 514
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 643

tggggatgac nccattagan ancncgttat ttgcngacac tatacagtac tcaagctntg 60
agaaattatg gctgaggcta agacatgttg tgggcccatt gttcaaattg aggcattht 120

ttattttattt ttaattttatc atttgggttaa atgtcaaatt aatatgggat aagtcattat 180
 agatgttgta acttttgaat cgaaagtatt ttttttttaa tttatgactt taagatcgta 240
 ggagtttttt tttagtactc taaagtcgta aagtctatcc gttaaatttt ttattaaatt 300
 cataaatgaa tgtacaactt caattttttt attccttttc ataaaattgt aaatcatttt 360
 ttaattcaat tatttaataa ataaatgtat ttttactttt cttagtttta tataatattt 420
 tctacatatt ttttatatag acttatctaa tatatttcct atactagttt attcaatatt 480
 gtcttaatcg ctggtatatt atcttatttt atat 514

<210> 644
 <211> 309
 <212> DNA
 <213> Glycine max

<400> 644

agcttgataa caatgtctct tctgttttagc attattaacg gcatgctcct cttccatttt 60
 gcatcctgct acaggaaggt gccattcggg agagctaaga attctttaca gggctgatgg 120
 ggtttatcaa caaggtagtc ccaactagga tcggacactt ccaccgttgg atgataggca 180
 tcttctacaa tatcctttat ttccatggga tcttcattct ccttatattg cgcacctctc 240
 ttggcgctct gcttaaagag ccagaaccat taccattgt ctcttaaaat gcgatgaatct 300
 ggggcattt 309

<210> 645
 <211> 310
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 645

agagcactcg atctatataa agaacttttt cttcaacaac aacaccttac canaactcat 60
 gagaaataat aatgcanaac taacactaat aagatgttgc acaaataccc attatgggta 120
 aactcaaaga aagaagaana aggcttacca tccaatagtg gggtcacaag ctcaaggaaa 180
 tagatgagtg caaattgtcc taaagggaaa taagccctat tcttgagagt gaatgaaaaa 240
 ccttcttatg gttggaggag aaaatgggaa agctctgaga aatgagtaaa ggtgcatagt 300

tncaaagtat

310

<210> 646
<211> 297
<212> DNA
<213> Glycine max

<400> 646

agcttatcga gatccgtgat ggataggcaa tgtttcggca taatgtggaa cctgacgttg 60
ttgatgtaca catgcaaadc ggagaagatg gagagttatt tgatggcaaa cacaatcatg 120
ttgttcagct tcacgacttc cgcgtgcac accactaagg tgaggatgtt gaagccattg 180
ttgcggataa gaagcatcac gtcaatcaac atcaagaata ccttcgcaa ggtgttggtc 240
ttgttccaat gaagcgtatc agagggttaa gtgatgcaat ggcgaagtgg gttcgag 297

<210> 647
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 647

ctaactgngc agtantccaa aaatgtgagt gacatcacct tgagggtgggc aacaaattaa 60
gtgccttcac cataatagca cctgcacctg aacctatgaa gcttcattct acacctgaga 120
aagatgatga gatatttcct cataagagaa agcttccaac gcacatatta cgcaactgac 180
ccttttttcc tctcatgact taaccacccc tctacactct attattccca ataccatata 240
tcaactaccc gtacatcacc attctgcacc taccttacct ctcccttgag acaaactctt 300
tatcgcttc acatgtaacc ccgtaaaccac tacaatctct aatatatgat tgctcaactc 360
tcttcaacct ct 372

<210> 648
<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 648

tttgagccgt cgacgacng ngatccttag agtcacctga ggctgctgct tacatcaaca 60

cttcaggggc tgtactactt acatggattg atgggcctat gcagttgaaa gcctggagaa 120
agaggatgcc tatngttgtt gggatgaatt ctccagattt acctgggtaa actctatcag 180
agagaatcaa aaccttgagt attcaagagc tgagtctaag acttcaaaga gagaaagact 240
gtgtcatcaa gagaatcagg agtgaccatg gcagagaatt tgaaacagca ggttcactga 300
atttgacat ctgaggcata ctcatgagtt tttgcagcat tacacaaaca gaatgggata 360
gtgagaggaa aacag 375

<210> 649
<211> 234
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 649

tttgagcgtc tcgatatatg acgagactac atcacatc ttagtaanaa gttatagtcg 60
tttgaatatg ctgagagctt caacattcaa ttacgagcat ctgctatat tacgggactc 120
aatcagacat ccgagtaaag agtttgttgt ttgaattgtc tgagagcact cacattcaca 180
ttctagcgcc tcgatatata tatggactct atcacacatc cgagtataaa gtta 234

<210> 650
<211> 407
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 650

tgcaagcttc tttgagaaaa cttccttgag aagctagtgc ttagctacac acaccctct 60
cataactaag ctacctcct tgagaagctt ctctaagaag attcctaaag aagctagagc 120
ttagctacac atacctctct aatagctaag ctacctcct tgagatgaga agctagagct 180
tagctacaca ccnctataa tagctaagct ccccccatg aaaaaaaaaa catgacaata 240
caaaaaaaaa agtccttact acaaagacta ctcaaatgc cccgaaatac aaggctaaaa 300
ccctatacta ttagaatggc caaaatacaa ggcccaaacg aagaaaaaac ctattctaata 360
atttacaag ataagcgggt catgcttagc ccatgggctc gaaatct 407

<210> 651

<211> 337
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 651

cgcctaacta aatatgatat tgagtgtttt ttacatgcat ntacttaaca agaaacttan 60
 acattagnta agttttaaact atatggttgg aaaaagaaca agtgggaagag tgaagggtttc 120
 caaacaacaa tccttgacaa aaaataaaaa aaagctgggt ctagcaaata aatcatatca 180
 cactaagaat gagaaataat accagcatcc ctatccaaaa aatattcaag gatgagacgt 240
 gtaaaaggtc acgaatttca tgctgctaata gatatatcta acantaataa tctngtcctt 300
 ttataccttt tanggtatta tggagatgga cgggagt 337

<210> 652
 <211> 178
 <212> DNA
 <213> Glycine max

<400> 652

cccatcatga tgctctttct gaacagaaaag tacctgtgaa cgtgcactaa attgcctatc 60
 aactcactac gagagaaatt gaacttatct taaactctgt gatatgagta tcattacaat 120
 tatgaggcat ctacgtgcat aaaatggatc aggttgggtcc ttatgacctt gctgccta 178

<210> 653
 <211> 354
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 653

tagctacaca caccatcta anaactaagc tcacctcctt gagaaacttc cttgagaagc 60
 tagaagctag ctacacancc ctataatagc taagctcacc cncatgacaa anaaacatga 120
 naatacanaa aanatcctac taciaaagact actcanaatg ccctgaaata caaggctaen 180
 accctatact actagaatgg ccaaaatata aggccagac gaagganata cctattctaa 240
 tatntacaaa gataagcggg ctcatactta gcccatgggc tcgaaatcta ccctaaggct 300
 catgagaacn ctanggtctt cctttggatc tctagcccaa tctacttgga gtct 354

<210> 654
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 654

taatagggta agcactacaa catttataat ttcaaagcaa agcacataat aatagctatt 60
 gtacataggt ttgatcacac ataacacact atagaatatt attcgtcata attaacaaac 120
 aattctaaaa gctatagcgt catggtactt taagatgaca tatagagttt taggtttatc 180
 aaagaatttc ccataacaaa tccaggacta tatcccaaca ttgcaaatac tacaagagca 240
 agcaatcaat atactttaga atctcacacc catattccat ttcaagcatt atattttttc 300
 atatttagac ataacttggc ttatgttcta ggccaatatt ggactttatt ttacaccagc 360
 ttattggact ntaagaatac atcccgcaac atcaaatgac tcaaataccat tactgcaaaa 420
 taaaataacc cagaggaact acaac 445

<210> 655
 <211> 520
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 655

atgtaattga aacctttgta agncccgta ctatagaaca ctcaagcttc taagattatt 60
 aataatatat ccattattca atattttcaa ttaattataa aaacaaaatt atttatctaa 120
 aaaagaanaa ttaaaaaaat attttgaaaa caaaataatt taaaattact aagagaaaga 180
 gcaactaaga ttttgacaga aaaaatgaat gcaaaaataa cacaattaaa attaaaaaat 240
 aataaccatt aatgtcttac atttttatgc ataaacatat atattacttt taatttaaaa 300
 ataaaaatat tttagtcatt tgtgtgaaat taaattactt acaacaaata aatttaattc 360
 aattctttta tagtaaaact ctttatatat atatatatat atatatatat atatatatat 420
 atatatatat atatatatat atatatatat atatatacac acgtatcagg gacatatgtg 480
 ggataatatg actacgttat atatgcgagt ggagatgctg 520

<210> 656

<211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 656

agtacaataa gctntatggt ctaaactctac tggaagatga catcccttgc catgcaccat 60
 ctagaatggg gaaagactgg taggggtctt ataggctatt ctatacaccc acaaagcatc 120
 atccaattta gcaaaccaat ctttactaga attctcttta tctttgtaaa tgagacttca 180
 acttgaccat ttttttgagg gtggtaaggc gatgcaacct tctgtctgac attatagtgc 240
 tccaatgcct tctgtagttg cacattgcaa aaatgggaac cccattact gatgagaact 300
 ctaggagttt ccaaccacg aaaaatatc ctcttcacaa accgaatgac tatttttgca 360
 tcacctttct gtgtggcaat ggcttacacc cattttgata gaaactcttt aaatgacaca 420

<210> 657
 <211> 265
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 657

gtatccattc agagaaatnt ccttttggga ggtcatcatg aggccaacaa gattccttgt 60
 gtgaagtng acacagtttg cctttctaan aataaagggg gccttgngat taaagatttg 120
 tctaaattta atgaggctnt acttgacana atgggggtgg agctggctaa taattagaac 180
 caactntggg caagaatctt aatctccaaa tatgggtggc ggaaggagtt gatctctggt 240
 ggaaagagca nattntcctc tcata 265

<210> 658
 <211> 360
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 658

tgaccttgtt tacagcgacg ggcaactctt agaactgaca gaggcccata atcagagctg 60
 gaaacgccag gaccctattg gacttcttcg agtccactgg gtgtcttatg ggtgcgatcc 120
 ctacaaacaa tagatgacat caganatcag ttgagcgatg tgcatactta cctatgtcac 180

gatggcatga ccttgctggg ggcacgggca ccctgtaaga ctgacagagg cccgtaacct 240
gagctggaaa ccctagggcc ttgttgggtt tctctgagac cacggcgtgt cttgtgggcg 300
cgatccctag caatagtgga tggcatcaca aatcaactga accatatgca tacttaccta 360

<210> 659
<211> 360
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 659

ttatctagta cattgtnttt gaaacaagca ccctacagta gaattgccaa caatagacat 60
tgtttcagtt agggttttca attatcatta ttgacgactt ttagtgagcc tcctaaagaa 120
tgtaaacgcg tggcttatgc caccctcttg ataaactaag aagaagaagg tgaataataa 180
ataatctttt ctattaaaat aatacggtag ttggtagaag gtatttataa cattaaatag 240
tactctcttc atttgtaaac gatatttatn tatatacaca tattaagaac gtcaaaggat 300
atatattaca taataagggt tcattgagtg ctatagattt taatattact ttagttttat 360

<210> 660
<211> 390
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 660

agcttgtagg gttatagtct cacgattgtc acgtgctcat gcaacaattg ttagccgtgg 60
ctatacgaga catcttgcca aacaaagtca gggttcacgat aacttgccctg tgctttttct 120
tacatgctat gtgtagcaaa gtgattgatc cagtaatgtt tgatgagttg gaaaacgaga 180
ccgcaattat actatgccag ttggagatgt attttcccc tgctttcttt gacatcatga 240
ttcacttgat tgtgcatctg gtcagagaaa tcaaatgtcg cggtcctgtt tatctacagc 300
ggatgtaccc ggctgagcga tacatgaaca tcttatnaga gtatacaaag aatctatatc 360
atccgaaagc atctattggt gagaggtaca 390

<210> 661
<211> 111

<212> DNA
<213> Glycine max

<400> 661

agaatgaagt ccactcaaac ctgaaatctc caacttccac tcgtagacac gcacttcacg 60
actaccgaaa tgccctcctt ttgcgatctg gagcggaaat gatggccaaa g 111

<210> 662
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 662

agcttgtacc agccactana ccttcaattt caattgtang ctntcctaata ttcttgacct 60
tcttctacg agagaccaac ttcaactcag tatgttctg tanataatta taattaatta 120
gaataaataa aattgtatat aaaatntaaa tatgttataa ttaaagaaat aactacctt 180
cttgcccaca ctttggttac cacatgatta acatatgatg tcaacactaa tgtatcttgn 240
ggcccacctg gaaaacccta tgaatcaaca cctacatcct ttgtaattgg atcatgaggt 300
tcttcatgag tctcatcagc agcatcatcg atatgcccac tatcctcgac aatagttgca 360
agtgttcatt atctacgtgt cgacactttc aatcttcgac gctg 404

<210> 663
<211> 319
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 663

gcacgagaca tcagggttta gtattccaag atacaacata tatcgcatga acattgttag 60
atagagaaca tccttaataa catcagtcac ccagtaggaa gaccaacacg ttctttatct 120
gtcttcatac accactactc acgtgattta attttggata gtttagttgc atacttgtcc 180
ataccacgca ccanactntc atccaaaggc acttatttac tgaaccacag cntaccaag 240
tacaacagaa tgctcgggag ttggatactc agtattcact taccgggtta tactactttc 300
gtgatccagt gcacttgtc 319

<210> 664
 <211> 349
 <212> DNA
 <213> Glycine max

<400> 664

aagcttctat agaatgttcg ttcctaattt ctctacaatt gcatcacctc tcaatgagct 60
 ggtgaagaac gatgtggcat ttacctgagg tgaaaaacaa gagctagcct ttggtttgat 120
 caaagaaaag cttactaagg cacatgttct aactcttctt gacttttcta aaacttttga 180
 gctacaatga gatgcctttg gagcgggagt tggagctgta ttgatacaag gcgggcacct 240
 tatttcttat attagtgaag gacttcatag tgccaccctc aactacccca cctatgataa 300
 agagctatat gccttaataa gagccctcca aacttgggaa cattacctt 349

<210> 665
 <211> 295
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 665

gtcacattgt caaagctcca atcttgnnt tgaaatagag agagcaacaa cagcaaanac 60
 tacaatcgaa gaaaataaat cataatcgaa gagcanaaaa aatatcagaa acaaggttct 120
 aacgtttctc tcacacaang ccttttattt cctctnctaa tccatttttc ttttcttttg 180
 gtattccacc anagacaatt tttttctaag ggaaaaaaca ctcgactggc agagaaatag 240
 tgaagtgaag agagagactg agagaanaga tattattctg gtgacgctga tgtgt 295

<210> 666
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 666

agcttggcag tgtgacattt tcttctgagt atttaatgca gcagattaat gaggtttcat 60
 tcttatcact gaatttccca tcgaagcaca aacacaatca ggagcactag gtttaataata 120
 atccttagct tgagatgcca atttctctg ctccctgcgt agttatatgt caaaagtggc 180
 aaagactctg catcatcata acaatcaaac caaataatgt gcataaggat ttagctcttc 240

tagagtgagc aagtgtgtaa agtaagaaag taaaagtgaa tgtactgttg atttgaattg 300
 atgtacctgg tggccctaac taactttaaa acaatgggga aacaccctta gtttctcact 360
 ttatacattt actaacttta gaggagtcaa atccctgcat cagaatatga acaagaaaac 420
 atcacctta 429

<210> 667
 <211> 459
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 667

ntatcaccag gatgatcaaa atgtttttca tcattgcttg agttggaagg ttgggaatgg 60
 ggataaagtc agcttttggga aagataagtg gttaggggaa ggctctactc tacaacagaa 120
 atacaatcag ctgtttctaa ttaatagaca gcaatctgac cttatttcaa tgatgggcta 180
 tttctctcat gatacatgga gatgggactt gaaatggaga aggaacctgt ttgaccatga 240
 aagtgatcta gctgtcgatt ttatggaaga aataagctct tttcattttc agagaaatgt 300
 taaagacatc atgacctgga aagctgatcc tagtggtgtc tattccacga ggtcagcata 360
 caaattcatg ataaccccct ctttcccagc ctttgatctg agatcctcaa cnttattatg 420
 gaaattgaag attccccaga agctgcagtt ttcacttgg 459

<210> 668
 <211> 306
 <212> DNA
 <213> Glycine max
 <400> 668

ttgctgtgat gaacaaaatt tagccaatat tatcagataa atcaaatact taccgtagaa 60
 ttactgaaaa tagaatctac atcatcaaga ctaatattag cctgttcaaa tacaggaggc 120
 ttatatccct tcttgaacca gtcattctca atgacctcag taaatgtaat ccgctgtgtc 180
 atattattaa aagaaaaaca gatgccggtt gttaataata atatatttgg tgaaatggag 240
 ggaaaagtaa aatattctgt atacactaga ttagactaga gtactatata attaaacaaa 300
 gaaaac 306

<210> 669
 <211> 363
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 669

gagagtcac ttgatatgac agctntggaa gtcctcttac gagactatgc tctagcatga 60
 ccaagcttct tatgccatac ccagtgatgc tctntgattt anagtaagca tgagaacctt 120
 tgactggaca gatcaccaag tttaatatata taaagaattc cttgtctctt agcaaagaag 180
 agtgaagagt tgtccttgnt ctgaacaata cacatccttg ttaaaggatga cattgtatcc 240
 actatcacat aatcgactta ttctcaacag aatatgcttc aatcctttaa cangtaanac 300
 attatctata taagggtagg gaggaacaca tactttacct acacanngta tcataccttt 360
 ctg 363

<210> 670
 <211> 505
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 670

atatgaatcc tgcangcagt natcccttag aatgcngccg gtcgnancct nggaccgatt 60
 catgcagaca agggacncct gtanagcata cataggtttt tgcagctga actaatgagg 120
 cgaacatgct catcatgctg acgcaactca actcatgggg ctctcgaga taatgataat 180
 taagcagaaa cctaagatgg cctgtcaatc ctatacagca ataattacag aaccctcct 240
 tgccttgccc accctttggc taaccatgag taacacacga cgtcaacact aacgtatgct 300
 gtgcccacac ctgaacaact ctactaatca ccacactacc tcctttggaa ttcgatcatg 360
 aggettctca tgagcctcat caggggaatg attgatatcg ccattattc ttgacaatag 420
 gtgccagtgn gcattatcta cgtgtcccca ctctcaatca ttnacgctg agggcgttct 480
 gctcgacca ctaacctntc taccn 505

<210> 671
 <211> 228
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 671

cttattatta ttccaataac tntgtgtgcg gaacaataaa aataatactc ataaacatat 60
tananagcat ttaacaatga ggaanaaaat gtcataacc atanaagaaa aaaagccaca 120
agaaaataaa aataaaatag tatntattnt ctanactac ctncattatta cctaattagc 180
tcaatcttgc aaatttaaaa tgcacaattg accaaaaaat aacttgat 228

<210> 672

<211> 226

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 672

agcttgagat gaggaagtgt tgaagggtga attttcctgc ttttattggt gaccacagag 60
tggtacctgn agatatgtcg cggnggtcag gagaccttgg ggacgtcagg tgggggtgcta 120
ttgccccaaa ccaagcttga ccaatcccga cccaaccccg gcatagtcgg tcagtggagaa 180
catgtgacgt acctaagcag gcgagcttct tgcagtcaca gataaa 226

<210> 673

<211> 296

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 673

caggcaacta actcctcttt canaaccatg ctatgtgctc gcgactgggtc cctttcttcc 60
tttcgcaact tgagttcact attgctaccn catagagctc cgcgaaattt gttccggcca 120
tactcttctt tgcgagccct cttgggtctct tgttcaaggg ctcttgcggt aattgcattc 180
tcttcccgtg acccggcaca ctcttccga acgtgtgtag cggccaactt gaacttcttc 240
ttggcaagtt ttgcctttcc taactcgcta ttgagagctt ggacttcttc gtgctc 296

<210> 674

<211> 113

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 674

gctgcaagct tggattgatt cggtctgaca agggattaat gnttagtaat ttaggctaca 60
acattgaaca aaagaggcaa atatgatcat catgctttga taaaaaaaaa atg 113

<210> 675
<211> 320
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 675

atgagaatgg ggtagatttg gagcatactc tcatctcaaa caagtctata acattaatct 60
aaactcgctc aaactggttt tacaacgaan aatctaccga atcaataatt gactcctcaa 120
cacccaatth accctagaaa tggctcttgc cttcactttg gtcactcatn ttctctattt 180
gctcagccca agctgtccca taagtcctaa atgacgattc anactaggat taactcactg 240
taatattcaa ttaccactaa atccagaatt agctnttcag acccctcaag cattacactg 300
tgtcactcat atcactacat 320

<210> 676
<211> 348
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 676

aaaaaaataa tttaatcgaa ctgatcgaaa ttcggaacat cactctaate tgtgtcaaate 60
acaanaaata aaaaaagaac accatatatt taaaaaaaaa aaaaaatttc tccacgggac 120
ctatgcaaca ggatagcaaa aaattcagtg cgctgagtgga ataaatgctt ccaaaagggc 180
gtaaatcgag ggggaacgaaa caaaaatgat tcatatctga aaaaaaaaca gacaccaaate 240
accaatgaaa gctttgcaaa aaaagcatag atcagcgcat atcaaacata gagcatgatt 300
acataatcag atgaaaacgc ggattatata tacaatagta atatgagt 348

<210> 677
<211> 312
<212> DNA

<213> Glycine max

<400> 677

ctcctcatac agtgaaactg gcacaagtga ccagacatct gatacggtag aggggtgattt 60
attattcatg tttcatagtt gtatattata atcgcacgta tatctataag aatgatgatg 120
ggtagcactt catcaagtga aacctctatt cttaacacat gaggaagttc acagtacaag 180
tgaaccattt ggtattctca atgacaataa gttaaaaata tcagcattca atgtagagag 240
ctcatccgaa gaagtccggg agatcttcat ggggtgatga gctacagatt ctgcaagagt 300
tattgaagtc ac 312

<210> 678

<211> 381

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 678

cgctctgnca ttcagnanag aaggaggggtt gagtcccggg ttatggtttg atcccacatc 60
aggaacgtta gcaatatcag tacttgggtct tccgtatgag tttgaggagt caactgaggg 120
tatagtctca atggccagct tggttatagt atcttcttgc gtacctgatt ctggagagcc 180
ctgcttctgc ataaaattgt cgacagtatt atttctaagt tctggtgga tggattcacg 240
ctcaccagat acagggattt ggttgatttc aataactgag tgctttgtgt catcagcact 300
caacttattc agctgataga cagaaggcat agactgctgt ccagatggga gcctcttctc 360
agtgtttcaa ctgatggact g 381

<210> 679

<211> 381

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 679

ctaaacttaa atctcgcat actaataaat ggttaatact gtattattct ggttttacat 60
ttntgttcta tgtggcttct cagattatct cttcacctag taaataagag actaatctac 120
caagcatgat ctgggtggtga naaagatcaa ccctctctag tctcaatggt acctttctca 180

caaacaaagt tcagaggatt gaatcanaaa tcacattcac atgctcaagg gatgtgagcc 240
gctgtcactc acatcaatgt atggtatgtc tgtaatacgt tggttgagtt atgttattgg 300
caaaatggat tgttcacaac ataaccacta tcatatggca cataactcac ctattgagag 360
catgatcaac accttcagta t 381

<210> 680
<211> 317
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 680

agctngaccg atccccgacc aaccgcgaa nagtttcac gtgagtatga aaagaggcac 60
atgtaatcat cctgctcgaa caaatgacaa cactggggca aataaagagg gtgagaatgt 120
agaacaaacc catgctgcga ctgccattac tatacggaca aggttcccac caacccaaca 180
atgtcattgc tcaaccaata acaacccttc tccctaccta ccaccaggt aatcacaaag 240
gccatcccta aatcaaccac aaaaccatc ttccacacaa ccaatgctaa gcaccacctt 300
tagcacaac caaaaca 317

<210> 681
<211> 151
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 681

cttgcaactg aacgccaaatt gttatcatca tataactaatg gatcacatcc agacagctta 60
tccgaagggtg ttctaattgt gtcggaaatn ttcgacagac tacaaaaactc tggcgattaa 120
tatttctgac gaccattatt ctaacggatt t 151

<210> 682
<211> 334
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 682

acatgataca tgtcttggtt tggctgggct caaagataaa ggagatgccc cacattat 60

ccatgacaca natgcanaga tgatgatttg gaaacttcat gcaaaaactgg tcatgcatgc 120
 acctatgtgg aactcaagt gtcaaaacttt tatggatcatg tgatgctagg gctcangatt 180
 tagatcaacc caatgttgcc aaaatatgtt cttttatcca tttgtgcatt catccgagtc 240
 catttcgggc gttcgggtgaa atttcacagt gttcaccctt caggtgtaga cacattnttt 300
 ttcaaaaact agttatgatc aatgaatttt tttc 334

<210> 683
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 683

gacaactctg atatcaagag acttacacac acacactntn tcctagtcga tcaactcacat 60
 anatntccat tctcnccctt tggttttgag tttatgcntt catttgaaat tagttaatta 120
 cttatgtgag ttcttgattt attccctata tctctcccc tttggcatca acaaaaagcc 180
 aaagtgtgta acaagtataa gacacacata tactattaat cattcacaag gcatacattg 240
 aagaatataa accaatcatg aagcagcaaa catgaataga tcanatatat aataaccaca 300
 tagtcatata atataattca taattgttca ttcacaccat gccaatatag aaaatactaa 360
 atatccaaat gtcataataa tatatggtat ttggataagt cactaca 407

<210> 684
 <211> 278
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 684

agcttccttc anaaattacc atatttgcgt ggtgactact aagagatagg ctaccaacaa 60
 gatcaaattt gaggagaaag caaattgagg tcgaagatcc actgtgtcca ttctgcattc 120
 agctgaggag agcgcttgcc aactattctt tcagttggag aaggatactc cgctatggtg 180
 ggaatcatta tcatgggtga angtagtggg ggcttgtcca aatcatacaa ggcaacactt 240
 ncttcaacac atatatggag cgacagatgg aatgagag 278

<210> 685
 <211> 454
 <212> DNA
 <213> Glycine max

<400> 685

cagagggtggt gggtgtgtta tgttatcgat tttcactctc tattcatatg tttccgtatg 60
 taattatgaa aacttcaactt aatttatgct tagttttgat tcttattttt ggctgtgttg 120
 tttatttggg gactgggtgc cattaatatg cttttggcag tgctttttca tttctaacac 180
 gttcttgtgt tctgcaatct ttttgcattg aatttcttat atacttagta gttggaatgg 240
 gcactgtgtt atcttttcag gtctaacacg ttcttttgtt ctgcaatatt attgcacatg 300
 atttcttaaa taccgagtag ttggtagata ttgtttcttt taacagcata catactgcca 360
 tgtgccatag agatatagaa ctgcttgact cctgggtgtgc acaatgcatg tataactcaa 420
 ctcaactgtgc ttgaatctgc ggactttctga aacg 454

<210> 686
 <211> 304
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 686

agctntgctg atttagttnt cacttacgaa aggttcaaag tgagtctgaa aagaggcaaa 60
 tttaatcatc ctgcttgaac aaatgagaaa actggggcaa ataaagaggg tgagaatgta 120
 gaagaaaccc atgctgcatc tgccattcct atacggncaa gtttcccacc aaccaacaa 180
 tgtcattgct caaccaataa caacccttct tcttaacctac caccagtta tccacanagg 240
 gccatcctaa atcaaccaca aaaccatct tccacacaac ccatgctaag caccaccttt 300
 agca 304

<210> 687
 <211> 314
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 687

gcttctctgg gacctangca naccttcaac tcatecttca cgatcaaagt gtctactcgt 60

cattgggtcgc tntcctccct ccggagctta agctcgtctat ctccagttcgg cattntcctt 120
 ttggatctta agagttgctg attngaacct ttattttgac cggtgggctt gctcgagtcc 180
 tgccctaagg gactacacct cttcatcttc ctccggtgcc tcaacttcct ccccttttgc 240
 gtgtgggatt tcagccactt acggtagcct ccaatgggcc cggtgtctnt gtctttcttt 300
 gcattatttc ccat 314

<210> 688
 <211> 120
 <212> DNA
 <213> Glycine max

<400> 688

agcttgacca atcccgaccc aaccgggca tattcgggtca gtgagaacat gtgacgtacc 60
 taagcaggcg agctcctggc agtcaacaga taaaaggaaa acacgaccac agagcaggga 120

<210> 689
 <211> 224
 <212> DNA
 <213> Glycine max

<400> 689

cttcaccttc ttgtcttcaa cgtgaactat gaccattgtt ctatcttccc gcgatgcttc 60
 ttttcatgtc cgcttgagtg ggcttatagc ctaaaccata ctctccacga ttgtcttggt 120
 tatttatcag gctagtattg ccgacgttgt atttgctata cccatcctgg gttcataacc 180
 gttccccaac ataactcggg ccatcattac cgctgcatcg gaca 224

<210> 690
 <211> 209
 <212> DNA
 <213> Glycine max

<400> 690

tctgtgtggt ggtcggcaga ggagcataaa ccacacagtc tggcgacagg tgcagatatt 60
 tgagtcatgg ccagttgggt taccagggtta accaaggcat ctagtttacc ttcaagcttc 120
 ttagtctcac ctgatgaaga tgaattcatg gctacttcaa gactcctct aatgacaata 180
 acatcatttc tggcactgaa ttgctggga 209

<210> 691
 <211> 386
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 691

accaagtggc ctagaatttg atcctggctg tcgacactct ttaagtgaag agccgcacgg 60
 ttggggagcc tatcctgtgc cagcatgcaa gcttaaaggg ctgttatgta agggagcggg 120
 ttacgcatgt aatataaaac cattgggtgtg ggattagcct acaactaatg ctattctagt 180
 tctctagata ggtgggtgac aggcattgga gacggcgaaa aagttaacta taataccgca 240
 tcatactaata gaaaacttcg catgctcaat gaatgcttaa taagatatgt ggctgcacaa 300
 gaaaagtgc acttacgang accgcgtcta tagatcgact cttgccggat ccttgcattg 360
 cgtctttata acgcatacat tctgac 386

<210> 692
 <211> 187
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 692

gcttatattg taattgttta agttgtaaga ctctcgaaac accttgtna tcttgagnaa 60
 aaaaagatta ngtgcttaat ttgtatatct gtctataaga cattaaggct agtttatgtg 120
 catacaaaca tcaacaactc tacntaattg ttagagccag aaatggctta atagtcaaag 180
 aatactt 187

<210> 693
 <211> 614
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 693

tcgacacttc anttctccat tgtatactcn cganatcata attcntntac tggctactga 60
 cacncaaach annacccgaa gaganaattg atgcgtctcg tacnccgagat cctctaagtc 120

tacctgccgc atgccagctt gtggaagagg caaataacat attatgcgtg ttgctatata 180
 actatctccc atctctcaat caatcctttg tatagtgtag gcttgtagac cacaaacttg 240
 catatgggga gtttgaggag gtgtacaact ctatctttac gctgtgagaa ttgttcatat 300
 tggctgtggc tatectttgt gaacatgacg gtttacgtgt tgggcgatgg tgtgcgtgac 360
 tcaccacatt tgctaaactt gtgaatgttc tctgatgtga cgatcaagat tacgattggt 420
 gctgcataac gggttctgaa ggatgtatac tgtacgggtg ntgactctta tctactctat 480
 tccacagcac gcagcaccca agctacttgt cctccggaac cataaatcgt acgacgtatc 540
 atacgttccg attgatcaat cgaatgtaac tatccacatc tcggttcgat catacctatc 600
 accctaacta tacg 614

<210> 694
 <211> 436
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 694

caagatgatg ggctcaacat atnaacaaac ccgctggcca atcatggagg ngggcggata 60
 atgccataga tgtgagtagg nccgaccggc ccatactttt gaaggatgga acgacctcca 120
 gaaggtttat ctacgaagcc ctgtcaaaga cggtatgatt tcccgtgcca gagaacatct 180
 ttgctaattgc attccgttgt actgcatgac atggaaacat gctcggcgga tagagatcta 240
 ttgcacaaaa tgatacaaca cggctagcta gatgtcgtct atgatgggga ggaagaatca 300
 catgtttacat cggcgctacc aatgatcaag tgctcataat cctaatectt ggtaatcatt 360
 acctagacac tattccaatg acccaacacc tttgcatgat ggcagcaaca ttctattctt 420
 acttatcgca caactc 436

<210> 695
 <211> 425
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 695

agatgcatgc ccatctatta aatgttgcca gtataatctg ctctattatt ttacaacacc 60

cttgttttaaa gtgtttcgggt aattatatat aatgaaatgg aaactttatg cttctatatatt 120
 tatgattcta tcgagttcaa ctgactatat accaatatgtt ttgtggtata aatgcactct 180
 aaccatctta attattacta aaaaaatgac atctaagaca gattgattag aatatgtttc 240
 atcaaattat ttgtaaaaaa atatatagtt taaaacgatt cttagaaaaa ttattttcaaa 300
 aaaattatgtt ttgtaaaatg gtttttaaga aaatcgtatt agaactcttta aatctgttaa 360
 ctttttttgg tttaaaaaag acattataaa acnggttctc taaaaaatcgt cttagaaaat 420
 ctatt 425

<210> 696
 <211> 532
 <212> DNA
 <213> Glycine max

<400> 696

aacattcatc tccatgtact attagtgtag caacatgata ataatccacc cagcacgtac 60
 atgatgcttc gtctcggatc ttatatcacc tgacgcatca agcttgagcg aaaagtgtga 120
 agatcacact tctacttttt attcgcgacc acgagtggac ctggagatat gtcgccgggg 180
 tcaagagatc ttggggaccg caggtgggggt gctatcttcc aaaccaagct tgaccagtcc 240
 cgaccecaacc cgggcatagt ctgtcagtga gaacctgtga cgtacctaaa caggcgagct 300
 cctgcactca accaataaag aataatgacc caatgcagga cgctgcgtgg tgctggctac 360
 tatggctcttg gtgatactgg atatggctta gctaagatac ctcggtatga atcgatacaa 420
 gctaaaatga aaccgcagct atattccttg gtatccaacc acggtggtat gttcacccctc 480
 tataatggat ccgagttgca tctcttgtcc tcttctactg gacggcggtta tc 532

<210> 697
 <211> 455
 <212> DNA
 <213> Glycine max

<400> 697

ttataccatg gatgaataac agcgggtcag ctacatcaaa aactaccaaa agaaacttag 60
 agttgacaag tattgcagct tacaagttc attggatact ggaacaaaca aaggctcgac 120
 taaaggaaaa agagtcattt taccttcaac ctttggtggg agcccatgtt acatggatca 180

actttatttt gatggtatgg caatatgtgg tcatgttggg ttcttaaate tttttataac 240
tctaacatgt tatccaaatt gtcctaaaat tcgtagatta ctttcacctt tgaatcttaa 300
accaacagac aggccagaca ttgtctcatg aattttcaga ttgaaatatg aacaaatgct 360
ttctgactta ccaaagcatc agctgctcag aaaagttggt gttgcgcgta agtttagaat 420
gatctttgct gttgaacgta gaaatcaatt gatca 455

<210> 698
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 698

gcttgtaaga attgcaagat catcttcctt gactacagtt ngaaaaagat cgccaccaat 60
ataaagagat gacaatttag agagtgatcc aagactttca aatggatctc cactgaattt 120
attagtagac agatcaagat atcttaatga tgaatgcttt ccacacgata taagaagagc 180
accacctttt gtgttggtgg aagaatctat ccgctcaata tttttaaatg cacctatata 240
atctgtcaga tggcctgaaa gtcgtcaact ctgaacttga agtcttgatg gtccatggga 300
aatacattga gcaagaatct ctaacagttc attaacctgc tcggttgagt ttgagattcg 360
agatatcaat gtcccttaag tcgcagagat tacccaaaga agttggaatg ttttcttcat 420
gtcgatacct g 431

<210> 699
<211> 381
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 699

catcangaaa caatntcact ttaaaagtgg gtcccaattg gattcctaag tttcaactta 60
ccttttttga agtgacatca tggcagtttag gtccagctt tccatcgtgg attcagtcac 120
aaaacaaact tcaatatggt ggactgtcta acacgngat ttagattct attcccactt 180
ggttctggga accacactct caggttttgt atttaaacct ctctcataat catatccatg 240
gtgagcttgt gactacaata aaaaatccaa tatctatcca aactgttgat ctaagcacac 300

atcacttatg tggtaaatac cctatctatc anatgatgtg tatgggttaa acctttcgac 360
caattcattc tctgaatcca t 381

<210> 700
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 700

agctntgagc canaatcatg actcaccata taccttgacc cagggtgaga atgccaatcc 60
ttaccctcgg aagcaaaaaa aagaagagaa cgaaaatttc caatcaaagg aaaaaggaga 120
aggaaaattt ccaatcaaag aggaagcaaa aaaggagaga aggaacattt ccaatcaaag 180
gaaaaagaga ggaaaggaaa ttctcaatca aagagtgcga gacagcaaaa agaaaagaaa 240
gataattccc aatcaaagaa tgggagatag aataaaagag agaagtataa aagaagactg 300
ctcctgggtca aagaanacag aagaaatgtg ccgagaggtc cttggaccag acgatatctg 360
aacaatacag aattgtcacc aaatgaaca 389

<210> 701
<211> 346
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 701

aacacaccaa aagattatga tgatgcatgg ctcaaattct caccactttc aaattgagct 60
ttcaaaaacta tcatgacatg tagaagaaaa ataaggattt caaatcagaa aatgtcaaga 120
gactttttatt ttcagaacaa ttaccattt cttgaacata tcctataatt caaagaanaa 180
tatgcaaagt tgtacatgca aacagaattt gacctaaata ttaaactaga aaccaacat 240
acttaaaaac aaaactaaca aaactaaca aactaggaat accaaactaa cttaaaaaat 300
tactaaacca aaaccaaaga acaagtcccc cataacttaa caacac 346

<210> 702
<211> 416
<212> DNA
<213> Glycine max

<400> 702

agcttgccat caaagcgctc tattcagcat ttgcactcca cccttctcgg ggatcttagc 60
agggtttttt taccaatacc ttctctctcc aatatttgct tgaaatacat tactttaaga 120
attaatttct aaattacacc attttctata gcaaagtcgg gttctgacat cccaacttga 180
tattttttta tcattctaca cattctctct ccattgtttt cttacaatac actactttat 240
atattaattc tcacactaga tcactttcaa caaattcacg aagatcgggg tcggacttcc 300
cttttttatt tataaaacac tctatatatt attaaaatta aatattatat tatataaaat 360
tatttctaat taatatagaa tttagctatc tattaaatta atttatggaa tattat 416

<210> 703

<211> 434

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 703

tgataagtnt atgggctaaa cttgggttga ttaggggtga ttcataatta gtcacaaac 60
aattaacttg aanagttaaa tgacttataa gagtaatttg atgaaaatac tttttttgag 120
ccacaagatt atacgaaaga tttgataata ttaaattcga gcagaatatg cttcctcgag 180
ataaaaataa agaagcaaat gacttgagac aaattgcttt tgggtataaa atgaatgagc 240
agaattttga atctcttata gcggtaaaaa aatttagcag atgagttcan aatttttaat 300
acaaatactt taacacctct tgattgggaa aaaaaaatct ttgggttgatt atctctaana 360
tccaagctcg taagtttata aaaaaagata aatatagagc attgaactat gctgatttag 420
gagatgacgt atat 434

<210> 704

<211> 420

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 704

gcttcttctt ggttctctcc ccatnngaaa ccatcatttt tcttgagcac ttcattgaga 60
ggtgctgcc aatgtgctaaa atccttcaaa aatcgtctat aaaaacttgc taagccatga 120

aaactcctca cctcggacac agaacttaggt gtaggccatt cttgaatagc cctaacccttc 180
 tgctgatcaa cttgcactcc ttttgaactc acaacaaaac caagaaacac aacatgggta 240
 gtacaaaaga tgcatttttc aagattggca tacaattggt cttttctaag cacagtcaag 300
 acagatttta aatgatcaat atgcaaata agtgaagtgc tatagataag aatatcatca 360
 aagtacacca caactacact ttctatgaac tctctcaaga tatggttcat taatctcatg 420

<210> 705
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 705

ntataagtgc gggctctggga gactaatgtc aagtgttcgc gatatgtgaa gatgatgttc 60
 caagtacttc ggatttggtc cgaccatgcc ctctgattt ccagctggga aattggcgag 120
 tggaggaacg ccccggcatt tacgcaacaa gcataatgta aacctttacg gttttaaaag 180
 ctctatagtt gggcctaggc ttcagagttt tcattttggt aaggctttgt gtcttttggt 240
 ttttaattta taatacaagg atctntcttc atctgttcct ggtctctacc cattctcatt 300
 catttgcattg tttacttctt tntctaaaac ggcagattcg atgacgagtt ccccgaaagta 360
 ctaatacctg ggaccctgtct atcaacttcg agcaagaaat g 401

<210> 706
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n.locations
 <400> 706

ctctacant tcatctctag catgcattnt tctttctttc tttaccact cctcacgttt 60
 ggttttttag ggaaaaacat cataactaaa cgcgccacaa ggcattcccta tcgcaccaga 120
 tccaaatcta taacgatggg tgatcaagag gagacacagg aacagatgac agccgacatg 180
 tcggctctga aagaacaaat ggcctacatg atggaggcca tgtaggtat gaggcagctc 240
 atggagaaga acgcccgcac cgctgccgct gtcagttcgg ctgccaaaagc agacccaact 300
 ctcttggaac tgtgcccata ctccttaagc gtgtaggacg ggaagggacc actgggcacg 360

atggcaccct taccttgata caaccgagcg gctaccctta ggatngccgc caactactca 420
c 421

<210> 707
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 707

tcgtgatttt ctggcagcat tgtgataaaa gtccttttag acaaagctct cataacaatt 60
tcagggtgcca gtaagttaga aatgcatgac ttgatacagg aaatggattg ngaaattggt 120
catcaagaat ctatcataga ccttggacga caaagtcaat attggaaatt cgagtaagtg 180
caagatgtat tgaaatataa catggtaaaa tggatattca actgctttta ttngataata 240
cctgtgcttc ttagaatgta tctagtagta tagacctgat cattattatt ntaatttttg 300
gttgatcatgg aactgatatt cgtgaaggca taactctaga tttgagtaaa ttaaccaggg 360
atctatattt gagctccaat tccttggcaa aattgtctaa catgagattt ctanaatcca 420
tgatttgtgc tacatgactt actgatttac 450

<210> 708
<211> 330
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 708

agcttnnccc agtccatgag ccgctgaagt tactcttcta tcgngngca ggtttccatg 60
tcgtgtgatt ccccgagatg aaacaaacat tcctcacttg tgccttcgcc acgagagacc 120
atgcatgttg cctgcagcga ctggtagatg aaccgtctag acatagccac atcttctaata 180
ctctctgact ctgacgacct attctttgtg atggcattta tgctaactcc cccatgactg 240
gctagtggat tggtttaacg ttggggccct cttcttgaaa ggatagtctc tccacactta 300
ttatgtgtag caccttatac ttgaatggcc 330

<210> 709
<211> 381
<212> DNA

<213> Glycine max
 <223> unsure at all n locations
 <400> 709

ttataagtgc gggctctggga gacgaangtc aagtggctgc gatatgtgaa gatgatacgt 60
 gctcatgcaa caattgtag ccatggctat acgagacatc ttgccaaaca aagttagggt 120
 agcgataact cgcattgtgct ntttcttcca tgctatatgt agcaaagtca ttgatectat 180
 caagtttgat gagttggaaa atgacgccgc aattatactg tgccagttgg agatgtattt 240
 tccccctgct ntatttgaca tcatgattca cttgattgtg atctggacag agaaatcaaa 300
 tgttggtgct ctatttatct accgaggatg taccgggtg agcgatacat gaagatcgta 360
 aaagggtata cgaagaatct a 381

<210> 710
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 710

agcttgagaa ggtggcaaaa agcttataga aactttaaca tgtatttact atggagtatg 60
 aaaagagagg acttgaacag aggtaaggta taaaacacca gttctgtggt gaaagtaaaa 120
 acgaaatattc tggctcacac ttgattcaat gaattgaata gctcaaggaa atataagcac 180
 ccatgatggt tgtggcatgt acttcaacaa ttaattcaat atagaaacta taataattga 240
 tacgaaataa aatgtgtgga aatattgaga ccatacttca natgagtaag taatatgcat 300
 cttgagggtc caagtatata ttgatggctt cacagattca tcccttgaag ttaaaatact 360
 aacaagcaat ttgaagatca actttccagg tatgtaaaac acagaattag gatcatctac 420
 agtcttatat agaactgcat caacctagtc cattgattta atta 464

<210> 711
 <211> 502
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 711

gcaccctttg aaccctgan nncctganc ccctgttgac accttgctat tcgtgacctc 60

tggataactca gccttgtgat cactgtatca ccagcatatc tttcagctct attgaaagcc 120
 tatctgcttc aaagaaaaat cgactcatag tcagggcggt taacaaaaat cttctggaaa 180
 ggactcattt ttgaattcat ctttaagggt ttcagtacat gtatggngtg agacagggtt 240
 ggaaaataca attgttccag accccaagcg agttaattac tgctcacagg ggggtagagt 300
 tatgctaaat gtgtcagcag atggtacccc acgcaatgca natataatgt ccactatttc 360
 cgatgaatac cagaagctga agtactctgt ctctcttgaa atatttcaat ttactttgtg 420
 tgtgaacaaa gagaaacagt ccacacagat ggaacttgaa agaccagatc tgtctatacg 480
 aatatatgag gagaaangcc cg 502

<210> 712
 <211> 474
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 712

gctttttgga gtagaaacat gggaccaact cattttatct caaaaatggt gtatctagtc 60
 aagggtctaag attccatata agtttcttag cgattttctaa ttatgtgggc cattaagtct 120
 atcatatgct gacaatagcc gagaaaccca tgaatttctt cgggggcgga gtaagtgtct 180
 gccatcgct tggccttggc taacaatcgg ggaagttcct gactcccgtt caaggtaaga 240
 gcaaaccgat ccattccat ggttgccctct tggtgaaaga gtcgatcacc cttcctctag 300
 cctctttntc cgcgtatact tgggcatact cgtccgcgat cctatgctcg tgggccgtgg 360
 ctagacctaa ctcttcttgg tacttggcga tgatagctag catgttggtc tccgtctcgc 420
 atagacgctg agacaagctt cttttggacc ttgaacaggc aactaactcc tctt 474

<210> 713
 <211> 427
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 713

gtgcgggtct gggagacgaa ggtcaagtgg tcgcgatatg tgaagatgat gttccaagaa 60
 ctctggattt ggtccgacca tgcctcctcg atttccagct gggaaattgg cgagtggagg 120

aacgccccgg catttacgca acgagcataa tgtaaaccctt tacgggtttta aaagctctat 180
 agttggggcct aggcctttaga gttttcattt tgtaagggtt ttgtgtcttt tgaatttata 240
 atacaaggat ctttcttcat ctgttcctag tctctaccca ttctcattca tttgcatggt 300
 tacttctttt ttctaaaacg gcagattcga tgacgagtc cccgaaggta ctaatacctg 360
 ngaccctgtc atcaacttcg agcaagaaat gaaccanacg gaagatgaag gagatgagga 420
 tgtggga 427

<210> 714
 <211> 289
 <212> DNA
 <213> Glycine max

<400> 714
 atttccccct tcttcttttt aaatatacca tttataaaaa gggaaaaact tacgtagagt 60
 tattaaccta tttgtggaga tttaaaacat ctgggttaag agatccatct aagagcctaa 120
 ataaaatctg gaagacagaa caagggaaat gttaaaagaa gaagaagtga atttgcata 180
 atagaacgcg tgagagaaga aaaagaaggg acctcaattt gccattggc tgcagcaata 240
 tgaagaggag agtgacaatc atagagaagg gtcagagttc aagagagct 289

<210> 715
 <211> 383
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 715

tcttctgacc cccgcgacat attctcaagt accactcagt ggtcaactaa taaaacgtgg 60
 aggactgact ctttcacact ttctcacacc gagcttattg gggttatgggg caccggtcat 120
 atgtggtact aggtggcgat cgggcgatgg cgcanaacaa atatccatt tccacaagcc 180
 caggcataag cccaccatcc ccangtgccc acctttaaaa ttagttcatt accgggtccc 240
 catcaacctc tccaagcttt cacaatatct aaacaattca attccatttg tcatgaaact 300
 accttaaaaa cagagtgaag gtagaaatct ttacacaaga ttcatcana ctccacatag 360
 tttttccaac ccacatacct cag 383

<210> 716
 <211> 69
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 716

 agcttgaagg tgtgtAACCC accattttcc atattatata tactggnaac gtgtctacta 60

 tcatggaca 69

<210> 717
 <211> 240
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 717

 agctntgtat aatgagaatt gtccttcaac aagctttgaa anttggcatc tgaagtctga 60

 aagctctang cagataagtc tgcaaaagct ggaagtgggtg ctgaagtaaa agatgcaagg 120

 atgccagcta ttggtgcana ggaagaggga gcatcagctg ctctgatctt ggtcttcctt 180

 gcctctagaa aattaactgg ttggtcattc gcattccaac angttcttat gatataagct 240

<210> 718
 <211> 461
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 718

 agcttgggtc aaccncgtaa tccaaggaat ggaaattctg attgccaata cttcaacaac 60

 atctcatagg gatgaatgac tcgggcatac tttaagctta tgcacggaaa atgtaattat 120

 gaaattgaga tgcccgaaga aacaccattt cctagttaac catgcattag gtaccatggt 180

 caattatttt gttttgttgt tgtgtgtttt ttttttagaa atgggtttat gatcccaaca 240

 tggttgggtc atgggtgccta acacatgcaa ctaagaatgt agtgtgaagt ttcaogcttc 300

 ccttttttgg tttttgtttt gtagaggaaa acgcaaggat gagcaaacaat gaaaacaaat 360

 ggtatgcaat tntgcagatc aaaaagtttg ttgaacgcat atgcatgatg atgccatgac 420

 tcatgcanaa tgtgaggctg gaatatgata acggacaaat g 461

<210> 719
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 719

ttgagggaga atggttagata atatgttttt tctttaataa ctttcttaat atacatcgta 60
 gactatatta acacattcta agtaatcgat tacgattttt ttttattttt tattttatga 120
 tgaatttcat gctgatcaca cacacttttt cactcatata atgagactaa aagaataaaaa 180
 tatacgtata cacgcaatat aaataatgga aaggaatata aatttactgt gagtcgacac 240
 tttcaattat ttttatgaaa tatatcaata aatattcatt atcctcaatc aattatgaag 300
 tttttagacg aattttctcc ttttctttgc gagacttctt tcatgtcggg cgatggctct 360
 cctttcaaga tgattattct tatttcanaa acttttat 398

<210> 720
 <211> 516
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 720

ccggtnatat ntttgaaacc ctggagtttg gctttaccat cgatnaccca cannanaaan 60
 aanaacacat ntttgatgaa acacgatgac acaatcacia cgacttgtgt catgtattgt 120
 actacggaga tccttaacga gtgaatctct ctctaggaga cacgtatgga actgtatgaa 180
 tattacgcat acctacttta gagcgaagct ctactgcttg agaagacaaa ctagatattc 240
 acacaacccc atcttgatat gtttagctca cccgatgaca tattacatgt taagtgtgct 300
 gaacttctgt tgtgctgaga cacatttatt gactctctat gataccgtcc tgcgctatgc 360
 acaggttata gagacttata ggtgacctgt ctaacgaaat gccagttgat atcgtgtcat 420
 ctataatcgg gcttatgatt ggacacgggc tcgaaactaa cgtatggcga agacaacatg 480
 tggactatct tggtgttatc tcaactgatct gggaan 516

<210> 721
 <211> 391

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 721

atcttaagtc acctgccgca tgcaagcttg cctcanagag gtccaggaag gacatggcat 60
 ccgaaggaac tagttccgct ccggagtatg acagtcaccg ctttaggagc gctgtacacc 120
 agcagcgctt cgaggccatc aagggatggt cgtttctcca ggagcgacgc gtccagctca 180
 gggacgacga gtatactgat ttgcacgagg aaatagggcg ccagcgggtg gcatcactgt 240
 gtactcccat ggccaagttt gatccagaaa tagtccttga gttttatgcc aatgcttggc 300
 caacagagga gggcgtgctg gacatgagat cctgngtaag gggtcagtgg atcccgtttg 360
 atgccgacgc tatcggccaa ctctaagat a 391

<210> 722
 <211> 289
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 722

tgctatgtgc tcgcgagtgg cacctctctt cccttcgcag cttgagttca ctattgctac 60
 cccatagagc tccgcgaaga ttattccggc catactcttc cttgcgagcc ctcttggact 120
 cttggtcaag ggctcttgcg gtaattgcat tctcttcccg taacccggca cactccttcc 180
 gaatgtgtgt agcggccaac ttgaacttct ccttggaag nttcgcttt cctaactcgc 240
 ttttgagagc tcggacttct tcgacctctt ccgaggcttc aaactctct 289

<210> 723
 <211> 296
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 723

atgcaaaagg tacgtatagc aacgtgcctt ctattcggtc aagcagactt gcacttcaac 60
 ttatcatatt tttttcttct taaacaacat ttttatccta aaataaaata aggactctgt 120
 aattntatnt tatttttaaaa aaatattttt aaatctcata tattttaaag agatgatgaa 180

gtcagagtaa ttgattatgg aatttaaaaa tccagtttat aaaaaaatg tgattatccc 240
atcgaatttc taaaaaaaaa catgacacat cagtgggtta ttaatattat tgggat 296

<210> 724
<211> 125
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 724

gtatgtgntt ggtatttatg ttaaataata agnttaanna taanaatgag agtttgtatt 60
aatatttaat agtatgtaag gngatgaaaa aaataaatat ataaataaaa tgaattnatt 120
attag 125

<210> 725
<211> 392
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 725

agcttcttga ggaagcctct taatgaagct tcttgaggaa gctacatgag ctgccttggt 60
aaaaacgttg cccagccttc gataaccgtt ggatcttcgt gtaatttggt ttgcagcttc 120
acaagacaat tgtacacgat ctgcctgttg ggatcttga gaagatgtct ggagtgtgtg 180
tgaagcttcc gttcccgaga gaatttctca ttaagcatt tcagcctttg ctttcgtgta 240
gcttaagaat tccttctcct ttctttcttc canagtcatt tctaacgccc caagcatttt 300
ctccatcacc cacaaccacc attagccatc acanaccgcc attgttctcc attgagaccc 360
acattgaaag gaacccttca accgaagcgg aa 392

<210> 726
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 726

ggaaggtttg tacatgacca aatctttagt taatcgtctt tacctanaac agtctttgta 60
tttgtttaag atgcatgaag atagatcact aggagaacaa ttggatttgt ttaataaaact 120

gattctagat cttgaaaata tccgatgtcac tatatgatga tgaggatcaa gctttgttat 180
 tgttgtgctc tttgcctaag gggtactcta atttcaaaga gactntattg tttggaagag 240
 actttgtttc tcttgatgaa gtgcaggctg ctctgaattc aaaggaattg aatgaaagaa 300
 aggaaaataa gtcctttaca agtgggtgaag ggctgacagc aagaggcaag accttcatga 360
 caaatagtaa atctgataag aagaagcana agccagaaaa ccagaagaat ggtgaaggaa 420
 atgtcttcan aatcagaggt catcact 447

<210> 727
 <211> 329
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 727

gatggtgaga ctgactctaa atttgatttc tgtggaccag tcttagtgct tttgaaattn 60
 tatcaaaata taccattgg ttttttatta aattgcgctt gaattaaact agataaattt 120
 tgcaatgaat tctctattag agccccctgt gagatgaggt caaattaagg tccatttggtg 180
 acatacaagg tggctgccct attgtgcaaa ttgggtttgg cagtgtgtgg gtctctttga 240
 ttttgagtct ttataagggt cgaaatgttg tttatagctt cttaaattag ctcataaatt 300
 ctttctaacc atgtctatta gaaaaatta 329

<210> 728
 <211> 429
 <212> DNA
 <213> Glycine max
 <400> 728

agcttggtgg agttcaaaga gaatcgtaga aggttcgggc taagatataa gcctacacgc 60
 accgacatga agagaaacac cctataaagg agaggcagaa gtgtgggcca ccagcaagga 120
 ttgcaagtaa aaggaaactcc cttatgtcac atcaacaaga gttttgtcag cgcacgctgg 180
 atgtgtgagg ggtgggttgc catgatccat gatgaagtcc ctcaagagca atcaaactgg 240
 gtgcgggcat gccctcctat gttcgagttg ggaaattggc aaattatcaa acaaccaca 300
 atttttgtgg caaacataat gtaatttggg aatccaaacc ctatagctga gcctcggctt 360

gtcttttgc attagatata tataaaatat aatctggcctt cattttttct tgcactttca 420
tccctatatt 429

<210> 729
<211> 265
<212> DNA
<213> Glycine max

<400> 729

tctttgagaa aacttccttg agaagctaga gcttagctac acttaccct ctcataacta 60
agctcacctc cttgagaagc ttccttaaga agattcgtaa agaagctaga gcttagctac 120
acatacctct ctaatagcta agctcacctc cttgagatga gaagctagag cttagctaca 180
cacccttat aatagctaag ctcaccccca tgacaaaaaa catgaaaata aaaaaaagt 240
ccttattaca aagacaactc aaaat 265

<210> 730
<211> 254
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 730

ggcacctcac ataacctgtt attctctngn ccaagggaaa gatttggagt aaaactttgg 60
aggtccacga aacagacgac aaattatttc taatgtataa taaatacttt tagtttgata 120
tattttttta aatgaacgag aaaaaaatga tagattaaca taaatggaat gttctaacac 180
cccagtgcc ggaggcttcc cgctatacga aggtatgtgg gaggggtatt ngacacagac 240
ttacccttgc ctat 254

<210> 731
<211> 559
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 731

ctcgtaactt aactcggcctt cgtactcgca actgngctcg tatttctatc ctatatgtta 60
tcncacacgc tgtgtatttt gttgattctg ttcgaaccg ngatcctata natagacctc 120

acgcatgcc a gcttaaatac caccagcatc aaagatctat ggtctgttga cggaacctct 180
 ccaaatacgca tctttccgca agaattacgg aaagatctta taattgacct tagccgacgt 240
 atccatgaag ccattgcgac actcaaccta ttatacgacc agcctttgaa atgttttcat 300
 tcggagactc tcattacccc caccatgga aatttgagaa acttttaggtg cctctccggg 360
 gaaaaaacat attttctttc cggggctccc tctttgacca attgccctgt ggcaagggtt 420
 agaaaagggtt gaagattaaa aactcggga cggctggtgc cccccgggg actctaaaac 480
 tggaagggtt ggcaccaagg atgggcccc ttttggggga ccctctattt ttggggggcc 540
 ccttcacccc cagcgtgc 559

<210> 732
 <211> 329
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 732

gagaaaactt ncttgagaag cttctttgag aaaactttct tgagaagcta gagtttagct 60
 acacacaccc ctctaataac taagctcacc tccttgagaa gcttccttga gaagattcct 120
 aaagaagcta gagcttagct acacacaccc cctataatag ctaagctcac ccccatgcaa 180
 aaatacatga aaatataaaa aaaaagtccc tattacaaag actactcaaa atgcccttga 240
 atacaaggct taaaccctat actactagaa tggggccacat acaaggccca aaagaaggaa 300
 aaccaattcc tacatttacc aagaagaat 329

<210> 733
 <211> 470
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 733

acactcttag gatttgccta gtttacatth cttgcttaca ttcataatag cttatttcct 60
 ttaccttcca ttgtcaaacc gcctagatag ctttcctttt accaattagt tntttacctt 120
 atctttcaca cctcttttag tgtttatttg gctagnttca accatagttt cttttacctt 180
 ttgttntcaa acctccaaca agaaagaacc acaacttagg aaccaatatg agtcatcatt 240

catctagtgg taatggcaag ggtactagtc ataaagaccc tttatctaga atcttagatg 300
 agttgagttc cctcacgtta tggaaagaan aacaagagag aaaagaanaa ggaagaataa 360
 gagtggaaga aataaatcat gatgaaagaa agacaatatg agaggaagaa agaagaacaa 420
 taatgaaaga aatgaanaga gaaaaacatg cctnctatag tagtcataac 470

<210> 734
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 734

atgatttggga ttatcctcta nggcaatcag tattcagtat tttaaattcc ctctcaaaaa 60
 attgcaggct tgggtggcggg gccacaaagc tgccatatat tataagaggc ttagtagagg 120
 tgcaatagtt acacaatgca gatggagggg gcgcatagcc aggaaagaac ttatgaaact 180
 gaaaatggta tgttttacca tgattcttat acattaagta gatccttcag aaatagatga 240
 caaaagatgt aacacgtcca tcttcaaaaa cttatggcac aaaaagcaaa agatactatt 300
 tgatcaattt ttaattgtaa aattgagttt caaattatag atatatataa acaatattca 360
 tattttttgt ttcattatta tcttcatgaa gggaaaaaca atagaagaac ttanaattct 420
 cttctgatc 429

<210> 735
 <211> 371
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 735

gcttattctt ncatggctta tttcctagag gatgggtgctt actctcacct ctctccttt 60
 atctttcggt gtaactccat ggctgaanat caccattgaa ggacctcatt aaagctcaaa 120
 gatccaacct ttataaaagc ttctcaagaa agcttccatc aggacttttg gacatcatag 180
 tgcctacagc tgaggcatca aggatcatct tgggtngagg tttcatacca ctatggaaga 240
 tatgcatatg tgcactgtca tcanagttat ggtttatgca cctctgcaac aaagcttta 300
 atctctccca tgtctcacag agagggttgt gagatccttg ggataaagtc atgatgaagg 360

ggtttacact g

371

<210> 736
<211> 335
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 736

gagaaaagtgt ggaagagtca gtcttcctac ttttattcgt tgaccacaga gtggtacctg 60
gagatatgtc gcgnggtca agagaccttg tggacgtcaa gtggggtgtt attgccccaa 120
accaagcttg accaatcccg acccaacca ggcatagtca gtcagtgaga acctgtgacg 180
tacctaaaca ggcgagctcc tggcagtcaa ccgataaaag aacaaagacc acaaagcaag 240
gaggcttggtg tgggtggtgg ccagctatgg atcttgagtg atatatgggt tatggcctct 300
ggtaatcgat tacaaagggg gtgtaatcga ttaca 335

<210> 737
<211> 504
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 737

atccttaagt cacctgcggc atgcaagctn gttcgcacat cgtcgcgtg tatgacatcc 60
actccacaag gtttgaagta gaggagacct tcaatcctat tacgcaacgt ggcggacaaa 120
aatgggcagt taacttgaat ggtcattatt gtcaatgcgg aaggtattct gcgcttact 180
atccatgttc acatattatt gcagcttggtg gttacgtgag cctgaactac taccaatata 240
tagatgttgt ttatacaaat gagcacatct tanaagctta ctccccacaa tgggtggcctc 300
ttgggaatga agcggctatt cctccttcta atgacgcatg gacacttatc catgacccaa 360
ctacaattcg tgcgataggt ccggcaaaat caacaaggat aatgaatgag atggattgga 420
tcgaaccatc tgaccaccga ctaaaatgca gtagatgtgg agccgaaggg cataacangc 480
gtcgtgccc atgcaatctg agcg 504

<210> 738
<211> 411
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 738

ttcacgcgacg aaaggaccac agtaggtcta ataagagaca aatctgatca tcatgctttg 60
atacatgccca aaaaaaacta cggcaaataga agagggtgag aatgaggaag aagcccatgc 120
tgtgactgtc attcctatac agccaagttt cccaccaacc caacaatgtc attacttagc 180
caataacaaa ccttttcctt acccaccgcc agttatccac aaaggccatc cttaaataca 240
ccataaagtc tgtctaccgc acttcanatg acgaacacca ccttttagcac ataccataaa 300
caccaaacia gaaatggaat ttgcagcgag aaagcctata gaattcacc caattccagt 360
gtcctatgct gactngctcc catatctact tgataattca atggtagcca t 411

<210> 739

<211> 420

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 739

agctctcatc tagccaagaa ttacaaaag tgttacaaca taacctaacg atttctaatt 60
atatgggcca ttaaatttat catgtgttga cagtaattga ttagcccggtg aatttcctct 120
ggggctgaac acacttcggc catgggcctt gctttggcta gtagtcgagg gaggtcttga 180
cttcatttta aggtcaaggc gaacctatcc atccacatgg tcgcttcttg atgcaatgca 240
tcaatcacc tcctcttgc ttcttctcg gcgtatgctt gtgcgaagtc ctcttctatc 300
ttttgctcat gggcanaga ctgggttaac tcttcttgt actgtcctat tatanctagc 360
atgctctgct ccgtggcttc taagtgttgg gccaaacttt tcttggatct tgagcaagct 420

<210> 740

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 740

tgtatcgatt cgctcctagt caggatcaca tcatcttgct cctttctttn tcatttaact 60
tttggctttt gtttccttct ctctttatat atgttttggg gtataataat tcatatatgt 120

atgtatgtgt cggaacctac ccttcggtaa gagggcgagg cgaaaagcca aaggagcatc 180
 ttccaaaaag gaaaacccgc gggagtcgcc accaacgttt actctaggaa aacattagaa 240
 aaacccaaaa aaaaaggctcg aaggctctgca aattttgaaa atgaggggttt gggagttggt 300
 tacacacgag gaaggatatt gcacccacg cactcgtcac aagggatggc aacctttaat 360
 cgagtgtgca naacatgaac ttcaaatgtgtattttccc tttcatatnn gtttttttat 420
 ttctttg 427

<210> 741
 <211> 500
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 741

ttaagtcacc tgccgctgca agcttatgat ttttanaaa ataattactt ctctgtgagt 60
 ctccatgaac ctaataaata tgaggagaat gaagatttgt gagtctccat gaacctaaaa 120
 aatctgagga gaatgaagat tggggaatga attataaaat tgtgatcctg tcttttataa 180
 acctaaactg acccgctntt ttcaggaaaa aagataagaa tagttaaact ttgcccgtat 240
 catacatatc actctaatan aaaataaagc attggagaga ccagaacata tgagatatga 300
 atcgaattct tatgcgttta tactttacca taaaagtcac attcaatatt atgtgaacca 360
 ttgatntaga tggctttntt ctttaataact catcatttaa cagagttcag aataatataa 420
 attgatgaat aaatcacatt cgcgcttctt atatactgaa cctattaatt caagccttaa 480
 gctaataataa gcaacatttc 500

<210> 742
 <211> 412
 <212> DNA
 <213> Glycine max
 <400> 742

aatgtaataa gttaaacata aagctattga ttgccgtaat caattggcct aaaggccaag 60
 tagagtatat taaatttcag gcaaaccctt atttcgaatc aactggaagt cgatcagcaa 120
 atctttttaa ttaacgaatt tgcctacttt caggaaggaa aaaaaaaaaa agcagtgtaa 180

tacctaatat atatctgaat ttatcatacg tatttgctac aattagattt tgtaaactgt 240
 aaatctctct aatataattc ctttatgaaa gatgattgta acattaaaaa atatattttg 300
 ggtcagcagc ttggatcttt ataggggggtg gtgccaacct agttgggact actccctcga 360
 ttgtatcagc tgtctcacca ttcatttaat aaataaataa ccaggatcaa tt 412

<210> 743
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 743

gagactatgt ttggcaaaga aaaactatga agaatgcgtt gccatggaaa aactacaacg 60
 cctactctct tcaaaagaaa taaagaaatt tcaaaaattg aaaaagata tgctgaagag 120
 gtgaatgaat taaatgataa aatccaagag atagaagata aatattatgc aacagagaaa 180
 tggtagcagc agaggaaaaa cactattaag aaattattgg agtacaagtg tgagggtgaag 240
 tcccacatta aatagaagtg gaaaagttga gcaccatata agtgaggaga agacctataa 300
 atctaagtct taaggttttg agttaaagtg tgggtattaa atcccttatac ttgttactca 360
 t 361

<210> 744
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 744

tggtcaccat tntcaaggat agaattcata agactaagga aaaggattaa aaggagggtca 60
 atgatgatga tgatgatgat gatgaagact atgtacctaa atatgaagag agacttggat 120
 caaattctat aagtgaaaat taccagcacg acaaatatga tgaattttct actacaaatg 180
 atcttgagtc acgggaaaga aagataactc ttgaaaattt tcaatataat gctaataatac 240
 attattgtgt taataaatga gtgggggtggt tttgtgggta ttgtgaaaat tntcaatata 300
 ataccatagg aaattgactt cattntcttg atctatctac atctttctta anaaaaattc 360
 aaattcactc ttttgtaana aaatag 386

<210> 745
 <211> 244
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 745

cataaaaagt cttgtggaat tgattacaag gattnggtaa tcgactacca atgacaagtt 60
 ttgaataaaa atcacaagat gtaactcttc aaatgggtttt caggctattc tanagggtat 120
 aactcttcca atgggtttcca ttgaccacac ataaagagtc tataaaagcg cgaccttgag 180
 tngcatattg agatctgagt acaaactttt acatctttta cacacaacct ttgaacatct 240
 tctt 244

<210> 746
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 746

ggcttctaca atctccnct ntttgatgat gacaaccctg atatcaagaa acacatgcac 60
 atactttttc ctagtgcatt actcacttaa ttctccatat tctaccctt tggttttgag 120
 tttaagcttc acttgaaatt aagttaatta cttatgtgag ttcttgattt aatccctatt 180
 tctctcccc tttggcatca acaaaaaacc aaagtgcgta acaaatataa aacatacaca 240
 aataactaat catacacaag acattcattg aaaaatctaa accaatcatg aagcaagaaa 300
 catgaataga tcaaatatat aaaaaccaca tagtcatata acataattca tatttgttca 360
 gtcatactat gcaaataaaa gaaatactaa atgttcaa atgtcataataa tatagccaaa 420
 tacacggcta gaaatcaaag tactaataat a 451

<210> 747
 <211> 476
 <212> DNA
 <213> Glycine max

<400> 747

cgcgcgcgcg ctcttattag agaacggtaa cgtcttgtag tattatacac acgaaactat 60
 atctacagga tgccacgtat gagggtattc ctcaataatc aggcgcttag actcgatctg 120

agagaggaga gacgtataaa ctcatcaact tctctaggat tgaagttctg atctatatcg 180
gaacattatc ttctgacgcg atacctgcat aactacgct cagcatacca gacctctctg 240
cattgtatac gacggagggtc ctccgagtag agttatcaaa cataacctat ccaattgaag 300
cacatggact tttcaataaa aagcacgaca attccattat tacacgtctg ctcatcgaga 360
aagagatctc taggccgtag atatatactc tcatattcaa cttagatgaa tgtagaaaaa 420
atgtacttat agctgcataa tgatcatgtg ccggatctaa caatacacga gatgcc 476

<210> 748
<211> 337
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 748

tctccaccat tntcttataa atagggggag aagtgaagag gaatttcgtt cagccctcct 60
ggtaattcag aatcacttaa aattagtgaa naaaattggt tccgtgaaga anatccaagc 120
cgaggcgctt ccgtaacgtt tccgtgggtg atttcgcgaa ggttttcggc cgttcttcga 180
cgctcttcat tegtcttcg tcgntcttcg gtcttcaacc ggtaagttcc ctaaactcga 240
cttttcaatt cattctatgt acccttagtg gtcttcattt gcttttacgt gctttcattt 300
acatttcctt tacttttcgt acccccggtt gacgtgc 337

<210> 749
<211> 489
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 749

agcttgtctc agcgtttagg cgagacagag accatcatgt tagctatcat cgccaagtag 60
gaagaagagt taggtctagc cacggccac gagcatagaa tcgcgatga gtatgctcaa 120
gtatatgcgg aaaaagaggc tagaggaagg gtgatcgact ctttacacca agaggcaacc 180
atgtggatgg atcggtttgc tcttaccttg aacgggagtc aagaacttcc ccgattgtta 240
gccaaaggcca aggcgatggc agacacctac tccgccncg aagagattca tgggcttctc 300
agctattgtc agcatatgat agacttaatg gccacataa ttagaaatcg ttaggaaact 360

tgtatggtct cttatacctt gactagatat gaattccttc ttgaaatana atgagttggt 420
 cccatgtttc tactccacan agcttgtgca aatcanatca ctccctacatc tcctctctag 480
 catgcattt 489

<210> 750
 <211> 451
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 750

ggcgaccagc tgcgccaggc gagtaagggt gcttcctcca gaagcaacaa ccttctggag 60
 gaatcttcta gagggcccaa gtgggcctga ttgctatttg tacctccctt ttactaaat 120
 ccatccctt ctattttttt ggtaattctt ttccgtaac gttacgaaac ttacgaatt 180
 togtaacgat acttattttc ctccgcaag gttacgaatc cttacggatt atgtatttac 240
 tctnttttag cntcgaaga agttacggaa acttacggat tgcgcanaaa cacctctttt 300
 cgatttccgc cacattacgg aatttcacgg attgcgcaag cctgcttcct ttgattntt 360
 gacaggcctc gggacttcat tcattgtgca accaaggacg ccaagtatct cgaagcggcc 420
 aatcaaagggt tgtatatcat caaataataa t 451

<210> 751
 <211> 141
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 751

tactgaccat tgataatatc acaagtgagt ttattcagaa attagagttt atgtctttat 60
 cttgtgagag tgattctcct aaattcttga gtgattanag aacaccctgc ctgtatcaaa 120
 ggactttaac aacctttgag a 141

<210> 752
 <211> 131
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 752

gattacctct ataatcaggc tcttagactc gatctgagag acgagagacg nataaaactca 60
ttatcttctc aaggatagag tgtctgatat atatcccaac aatatcatct gaggtcatcc 120
ctgcatatac t 131

<210> 753

<211> 427

<212> DNA

<213> Glycine max

<400> 753

taggggcagg tacgaacagg ttctatgcc atgatcaatc gatcaccacc cccgcgttcg 60
gctaaagata ttaaagaagc tctcctagga ggcagcctag tatctctaac tttgctcttt 120
aatttctctgt ttcatacttg ttctttttct tgaactatat cctgaattcg cctaagttta 180
tatgcaatta taggatttta agagaaaaaa tataacaatg aataacacaa ttttgtaaag 240
gattttcttc accaaaaaaa taataattac ctgcgttggg cgagtggcca gctcgcctag 300
gcgagcatgg ctatggtgaa aacataaaa aggggagggg tgaagccatt ttcaccctat 360
tcttgcccaa aatcaaaacc ttccccaaga gcttacggga gccaccattg gcagcagccc 420
ccaagct 427

<210> 754

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 754

catcacatgt ggcactatgt ggcggtcggg cgatggtgca caacaagttt tccacatcca 60
caaatcgcg ataaaccac catcccctgg tgcccacctc caactgagct cacgtactcc 120
cacgtagccc atattctcgt ttctctcaac accgggtccc catcaatcct cccaagcttc 180
cccaacattc aggtaattca acatccaaat catcacaac taacaaacca agcaaaacag 240
ggcaaaggca gaatactctg cccaaaactc aaaccanaat cacagctttt tctcacttaa 300
agaccccagt aacatttcct tcattccaat tcgttaaccg gtggatcgac tcgaaaaatt 360
tactggaagt ctctagtaca taagcctaca ttntgaccgg tgggatctac t 411

<210> 755
 <211> 268
 <212> DNA
 <213> Glycine max

<400> 755

catgcctttg acggcaaccg cccacacgcg acgtgagaga tcgacctccc tgtacagata 60
 agcccccata cctgtcatga tatecttcaa gatattgata ttaacctggc ttacagctgt 120
 cttttgggac gcccgaggat gcactcagtg ggagatgac cctctacact gcaccacaaa 180
 ttgatagtcg tagtacacgt gcactggggc attgtgtctg tggacgaaga aatcttggtg 240
 agatgcccac tctctatgcc atatgtgg 268

<210> 756
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 756

gcttgcatat aataatcaca gtatctgcat attcaattc agtatatgga catgtgttct 60
 tccttaagag aggggtgttat cctgttgaa gatcctgcat actacctgca ccaaaaggaa 120
 cataacacag tcattaagaa tcagtgttct gagtatatca atgaattntg tgtccacaag 180
 cctgtggcag aaccagtggc ttgtgtcaag ggaccaaggg attataattc ttcacgtatc 240
 cagtcgtgct taaaagttgt ctcaaagtga gatgaagagg ctgatgttga acctacatct 300
 cctgaanagg aaggataga atgtgataat ccagaatctg aaagtaggtg agaactctgac 360
 atcaagtgct gttatggttg tgaaactgat atataattgc atgacgtctt atagcagcag 420
 aatctgaagt gaaacttaat agcctaatt 448

<210> 757
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 757

agttagggta gtgaatgata ttctgaaggc gtgttattgt gtaaccatt aataaagtgt 60

tcaccattga aggacctcat tgaagatcaa agatccagcc tccatagaag ctccacaagc 180
aagcttccat caagttatga ccatttgaat ttctcgagat cttccgtggn tcaatttcgg 240
gcgtctccat atgtcatgtg cctgaatcgg acctccgtaa tataatttat gaccattcga 300
acttctctag agctt 315

<210> 761
<211> 410
<212> DNA
<213> Glycine max

<400> 761

gcagatctgg tcttcgccag tgaaaggatc aatgtgggtc cgaaaagagg caaatttgat 60
catcctacta tgacgactga gaaaactggg gcaaataaag aggggtgagga tgagggagaa 120
acccatgctg tgactgccat tectgtacgg ccaaatttcc caccaacca acaatatctt 180
tactcagcca ataacaaact ttctccttac ccaccacca gttatccaca aaggccatcc 240
ctaaatctac caciaagtct gtctaccgca cttccaatga cgaacaccac ctttagcaca 300
aaccaaaaac accaaccaag aagtgaattt tgcagcgaga aagcctgtag aattcacccc 360
aattccagtg tcctatgctg acttgtccca tatctacttg ataattcaat 410

<210> 762
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 762

gcttaataac aatgcctaag gaggagcatt acatagcacc catcttggtc ctgttaggga 60
taaacatgtc gttgaagtac attcaacatc tgggtataaa ggacttttac catggcatac 120
tacagtgact aacactgtat tcagaatcat tntcatccct tttatgaact tccctctttt 180
ttatgaactg cctctttttt tagtctttgt ttcccacctc ttaaacaatct gcattntccc 240
atthaggttt cttgtttttg tgaggaatgg cggaaattat gttttatatg gacaagactg 300
ttggttgga aatgaatgag aatcaacatg gtgctcatac ttttgttttc aaataaataa 360
aagtgggcat gctactaata tttaatntat tatggtgctt ctattaataa agtacacctt 420
gttaggaaac caaaatatag aacagaaat 449

<210> 763
 <211> 287
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 763

tcttatccaa cgctcatctt ggtggtgaag ctcttcttc catggcttat tccttaatgg 60
 atggcgctc ctttcacctc ttttcctttg tcttcgcta catctccatg gtggaaaatc 120
 accattaaag gacccattg aagctcanag atccagctc catagaagcc ccacaagcaa 180
 gtttccatca gaatgtccac gtcttttagag ggctacacgc ccatgccttc agaggactac 240
 acgcctcgc cttatgagga ctacacatcc tcaccttag aggacta 287

<210> 764
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 764

ctgtgagaac ctgtgacgta cctaaacagg cgagctcctg gcagtcaacc aataaaagaa 60
 caaagtccac gaagcaagga ggcttgtgtg gcggtggcc agctatgtat cttgggtggt 120
 atctggaaat tagcctctgg taatcgatta ccattcatgg ataatcgatt acaggggtta 180
 aaaatggaga caggatggta aatggcctct ggtaatcgat taccaaggga gtgtaatcga 240
 ttacacaggg tgatagggca ctggtaatcg attaccagct ggggtgtaatc cattacacag 300
 ggtgataggg cactagtaat cgattaccac ttatgtgtaa tcgattacac agtgtatttt 360
 ttaattttca atgtgcanag gctgtgtaat tcgtttttgg caccggtaat cattacatac 420
 tttggtatcg atacc 435

<210> 765
 <211> 318
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 765

tcatgatgat gaatgaagtt gattcaagta gttntgatga tatctaagat gatgacaaan 60
agcccaagag aatgatttca agattgagtt aacaagattt atgaatcaag agaagtttga 120
tttcaagatt caagagaaga tgaattcaag attcaagaca agaaatcaag aagacttcat 180
aagggaagta ttgaaaagat ttttcaaaaa acaaacatag cacaattttg tttttcaaaa 240
gagctcttct cagaattgtc taagttacca gagtttttac tctctgggtga tgcattacca 300
attaactggt atcgatta 318

<210> 766
<211> 395
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 766

agcttctaac cttttccttc ctttctacca catatgtgga gttattccac atacataaaa 60
ggccaccagc agcttccaca gatggaacaa aatcccaatg accagtggag tctcccgaaa 120
tggcctggca aatactttta ttaaagntct ccctcttggg ttcttggagg cagacaagat 180
gcactttgtg cttacaatga gccttctaac agcagccac ttgactcccc tcccctaacc 240
tctagaatta taggagagaa ttatcataat tgctgagatt taattccctt ttctgttgcc 300
atcaaatacat ctttattctc catatgcagc agtagccct taaccttgct atcttcttnc 360
ttataagaca agcccatttc cttcaagatg tcaca 395

<210> 767
<211> 432
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 767

agctntggag tttccaagtg ccaattcgtc ttcttcttta gtccagtctt cttctggctt 60
caatccatca gtgggctttc cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120
gacagctttc caggttctgc tatccagtga tttgaggaag gccaccatcc ttgctttcca 180
gtattcatag ntgggttccat ccagaattgg tggctgttgc actggctctc cttctttctc 240
catgttcac agaatatttc tccctaggtc tcaactcagt atttcgagt cctgctctga 300

taccaattga aattctgata ccaatgccag atgtcgtaca ggatgtcacg acatcacgct 360
tcagaacatg cagattatct ctgagtggat gaacacgata aacaagtata taacacaaga 420
gaattgttta cc 432

<210> 768
<211> 429
<212> DNA
<213> Glycine max

<400> 768

tgtctcagcg tctatgcgag acagagacca acatgttagc tatcatcgcc aagtaccaag 60
aagagttggg tctagccacg gccacgagc atagaatcgc ggatgagtat gcccaagtat 120
atgcggaaaa agaggctaga ggaaggggtga tgcactcttt acaccaagag gcaaccatgt 180
ggatggatcg gtttgcctct accttgaacg ggagtcaaga acttccccga ttgttggcca 240
aggccaaggc gatggcagac acctactccg cccccgaaga gattcatggg cttctcggct 300
attgtcagca tatgatagac ttaatggccc acataattag aaatcgttag gaaacttgta 360
tggtctctca gaccttgact agatatgatt tctttttttg aaatgaaatg agttgggtccc 420
aggtttcta 429

<210> 769
<211> 466
<212> DNA
<213> Glycine max

<223> unsure at all 'n locations
<400> 769

gtcacctgcy gcatgcaagc tngagaatat caatgcgtca nagtcgctat ctcaatcacc 60
tttgtttgaa gatggagttg tatcaactca caatggagat gggaggagat ctccatgacc 120
acatcaacaa gttcaatcgg ctagtaagtt aactgttgaa tgtggatgat aaattctcta 180
atgaggagca agcgtctctg ttgttgggtct cactaccaa gtcttcata gctttggttc 240
aaacgttgct tgtgggaaga tcaactttga atttggatga ggtgactgtc gctcttagag 300
aanatgatga gaattgaaa tgctgatgat gaacacaatg caatagctgt gatggaatct 360
gagcgaggga ggaatcattc aaggagacat gatggtctaa gaggaagatc acaatcgcaa 420
tcgcatccac aacgagatat gagtaacatt cactgcttct attgtg 466

<210> 770
 <211> 345
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 770

ctgaggatag agacttccta agctatatat cttctctctc anataagttc tctaactttc 60
 tagctatctc actctaagaa gtggattcac tcttgtcttg gatggtagg aatgaaggct 120
 cctaccctta tttatactac tccacctcca caatgaatgg tggagattac ttgtatccta 180
 ggggtggagat taattctcta gaattctcca cacattctag gagtctctac acttttctac 240
 tctctttcat atcattccat aaggtttcag aaggttccac acatctccaa aatatttcag 300
 agggttccac attcttccac aagcttctag agagttctac actac 345

<210> 771
 <211> 465
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 771

agctntgcaa ctcagacacc tcaacaggag agatccgacg aggctgttgc tcctcttgag 60
 cctacacctg cacaggttga accagtgcc a gctgatccac attctccagt ggcagatcca 120
 tcttctcccg aacttgaagc agctccccca tcttcaccta ttattatcat ctctgaagac 180
 cctacagagt caacatttgg agaagctggt gctctctctg attcccctgt tnttcatctg 240
 atgaatgagg aggagacaca ggatcagtca caggattctt anattcctgt ccttctgttt 300
 atgttgacaa ttatcataac tattatattn tagtacattg ttttagtgaa ttttggtgat 360
 gggttatatat acttgtgttt tttggggaaa gtacgatgca tggtttgaag catacaggaa 420
 tagttaactt gatcttgatg aatatgtagt gaaacacttt tatca 465

<210> 772
 <211> 397
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations

<400> 772

tcattgcagt cttggaagcc agattagttc atggatgaga tccccacttt tgttgctcaa 60
cctttgcctg ttggaatgga tctggtttgg ttttggtttg gggttctcaa ttgaatttga 120
attcctctta attggttcct gcaaaattgt gtttttttgg gttcggttgt gtgttgatgat 180
aatgcaaaag gttgttaaaa atgattttta tttcattttt ttatgtgggg ggttgagttt 240
ctaggtgatt tgtatgaatg cacttgggtct tggagaaaaa aaattgtgtg aatttttagtt 300
ggaatggtcg aacagtgtga aaaagtttta ggttgcanat acacaactgt ggggtgtgatt 360
atgccaaaag gtatattaaa caaattgaat tttatgt 397

<210> 773

<211> 468

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 773

ttgtcgtgag aaaaagaata cactccaatt catcacatgg taaatgaata acaatggagg 60
acaaanagta tatagcaata ttaataaata aataaaaagt atatagccat tgaacgtagg 120
tgacaaattc aatccatgtc agtagtcgca tgacattcct ttttcttcta gaactgaacc 180
aacatcacccg aaaatcaaag ccattagccg aaagcanttt aacatagaaa cctataaaat 240
tgtgagttag ggttttagtga taggtcatgg tgagttgggg tcttgatcc ggttcaagta 300
tggaaccttc tttccatttt ttttatcttg actctcatga attaatgggc cagcaacact 360
tgatttgtgc ttgatacatt ataactaanaa ttagaaacct ataaaacctt ctcttttctt 420
tctcttttct ttttattatc tcttctaaat ttttcttctt cctctctc 468

<210> 774

<211> 444

<212> DNA

<213> Glycine max

<400> 774

aaagatctca gttttctatt atataatgat ataaattagt ttaaaagtgc atcagatatc 60
agttttctat tttataatga tataaactaa aatacctgtt tttaacactg tcttcatggg 120
gtaaaggcac agtccatca tcaggttctt cgtcactctg taccattacc gcttgatcta 180

ctattcctaa gttgtgaagc cattctttta acttcacaag acagcggtat tacattagca 240
 attaggctga atcagctata tcaaatgtaa tgaaggaaac taaactaatg gagatatgta 300
 tcttcactta ataacaacgg agtaacatga taaagaatca gggtttggaa cctaagttga 360
 agtgtgaggt tggggaggcc aaaaagatta aatgatagac acaatactgc aaaattaatg 420
 tgcaaacctg ctcttgcttg tcat 444

<210> 775
 <211> 456
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 775

aacccatgga agctccta atctcccaca ctttgntggg tgggccattc ttggatggcc 60
 ttgattttct caaggtccac ttggaccca tttctacca ctacaaaacc taagaagact 120
 atattatcta cacaaaaggt acacttctct atatttgc atagagggtgtt tttcctaagg 180
 actgaaagaa cttgcctgag atgttctaag tgatcatcta ggctcctact gtacactaaa 240
 atatcatcaa aataaacaac tacaatcta cctatgaaat ccattaagac atgatgcata 300
 agcctcataa aggtgcttgg tgtgttagtg aagcccaaaa gcatcactat ccattcatac 360
 acaccatact tggcttgaa agcgcggtcc actcatcact ctttttcata ctggattcgt 420
 gataaccact ttaagatca tttttgaag agatat 456

<210> 776
 <211> 442
 <212> DNA
 <213> Glycine max
 <400> 776

gagctgaaca cacatacctc tataatagct aagcacacct ctttgagaag agaagctaga 60
 gcttatctac acaccccta taatagctaa gctcaccacc atgacaaaaa acatgaaaat 120
 aacagagaaa agtccttatt acaaagacaa ctcaacatgc cccgaagtac aaggctaaaa 180
 ccctatacta ctagaatggc caaaatacaa ggcctagacg aaggaataac ctattcta 240
 atttacaag ataagcgggc tcatacttag cccatgggct cgaaatctac cctaaggctc 300

atgagaaccc taaggccttt ccttggatct ctagcccaat ctacttggag tcttctagcc 360
aatgcccttg cggggtaaga gtgcatcatt acttttcaact cagatgtgcg attcaggcac 420
atcagatatc gagacgctcg aa 442

<210> 777
<211> 286
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 777

gagcccgagt agtcaaagag aagttcaagt ctatagccat canagtctga agagagtatg 60
atgaactaag ggacgtcaat atggccaccg atgaagcctt ggaatgagaa accaagaatg 120
ccctgaagga agaacacgac caatacaagt tttgaggggc tttatagggc aataatagtg 180
agctcatact ccgaagaggt gaaaggagtc atcacgggtc acaggtatga tctgtaagga 240
cgagctatag gcttgcctta tgacgagaag aaatttgtcc cgaccg 286

<210> 778
<211> 193
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 778

atcagaccac ttccagngtg ctggaactac ttcacactga tttgatggng cctattctag 60
ttgaaagcct tggaggaaag aggtatgcct atgtcgatga ggatgatatc ttcagaatta 120
cctgagtcaa ctttatcaga gaaaaatcag acacctttga agctttaatt gagttgattc 180
ttatacttta aag 193

<210> 779
<211> 281
<212> DNA
<213> Glycine max

<400> 779

tcacacttac aaaggatata tgggtccatg agggacctcg ggctttctac agagggcttg 60
ttccatctct tcttggatg attccttatg cagggattga tctcactgca tatgacacct 120

tgaagatct atccaagaga tatattcttt atgacagtgg tatggtatta ctgcaaccac 180
 attatctctt gaacttaatg gatttatctt accactctga aatttttagt gacacataac 240
 acatgtaaac tcaacctttg aacttaaata tgtaattttt t 281

<210> 780
 <211> 247
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 780

ttcgtacta aagttggcga ctntgaaaat atttgagta gtttttaaca gattttatat 60
 ggatattgtt gaattagtgt actatattca ttctatatat atgggcgtgt ctcaaataa 120
 gtgcatcaat aagtgttcca gaagggttac gagtaaagaa aagccacgt gattcccta 180
 actatttcgc gttcatctcc acgtgactcc cccaaggctg caactctact actaccatgt 240
 gctagaa 247

<210> 781
 <211> 118
 <212> DNA
 <213> Glycine max
 <400> 781

agcttggttg attatggcgc acccgtcata tgtggtacta ggtggcgatc gggatgatgg 60
 gcatatcaat tctttcacat ccacaaataa gacatgaacc caccatcccc agttgtcc 118

<210> 782
 <211> 260
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 782

tcagacaaaa gcaacatana atctatgtat ccgaaacccc tcaatctaata ggattgtcaa 60
 ggggttgagaa gtgaatatga caatgagcgt tatttgagc aaactctcac ctacacaag 120
 tctataacat caatctaaac ttgctcaaac tggatttaca cctaaaactc caccgaata 180
 aaatttgatt cctcatcacc aattttaccc tagaaatgac tcttcgttca ctacgtacat 240

ccttttcttt tattgcaaag

260

<210> 783
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 783

agctntgcgg aattggcctt cgctggcgaa atgatcgaag tgggtctaaa aagaggaaaa 60
tctgatcatc atgctttgat aaatgcaaaa aaactgggtgc aaatgaagag ggtgagaatg 120
aggagaaaac ccatgctgtg actgccattc ctatacagtc atgtttccca ccaacccaac 180
aatgtcatta ctcagccaat aacaaacctt ctccttacct accacccagt tatccacaaa 240
ggccatccct aaatcaacca caaagcctgg ttaccgcact tccaatgaca aacaccacct 300
ttagcacaaa ccaaaacacc aaccaagaga tgaattttgc agcanaaaag catgtataat 360
tcacccaat tccggtgtcc tatgctgact tgctcccata tctacttaat aagtcaatgg 420
tagccataac ctcaaccaag gttcatcaa 449

<210> 784
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 784

tattatgatt acgagctata aaaccaaact catatctaag gagtttagag ttaagttaat 60
tattttatat ttctctttt ttctgctcan agtaagatat aactttcaat tcattctatc 120
ttggctagca aaggaagaaa tcaattcttg cacagtcgat ttgttttat agatttacct 180
acatggagaa acaaaagtca atttgaaatt tcattgggtac aaatatttga taattggatg 240
cttaaattatt tctagcatta aatattcata aattgcatat ggcttctttt gactcctcaa 300
aaacataggt aacaaaatac attgcanatc caatgtagat tactgggtca ttattatact 360
aatattgtta ttccaacgta gattgctana tatagtagt 399

<210> 785
<211> 333
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 785

agctnggaag gatgcttcga tggaggataa gaaatagga gagggagaga gaggggggag 60
cacgaaattg aatgaataaa agaggagag aagtggaact ttgaagtatg tatcacaaga 120
ctctcattca tcagagttac aacaagtgtt acacatgctt ctatgtatag acttggttagc 180
ttccttgaga agctttcttg agaaaacttt cttgagaagc ttgtttgata agacttcctt 240
gagaagctag agcttagctg cacacactcc tctaataaga aagctcacct ctttgagaag 300
cttccttgag atgatcgtag ataagctaga gct 333

<210> 786

<211> 200

<212> DNA

<213> Glycine max

<400> 786

gcttcacaat gacacaaggg agtgagactg tgactgagga gaggaggggt caggtctata 60
gggtgagaga ctgaggagag ggaatgaaaa tctgtatgac gtgagagtga taacaacaca 120
tgatggccct ttacatgatg gttttaataa aaccgatgtt gagtatctca ttgtcacaat 180
ggttatgaca aaaaacatct 200

<210> 787

<211> 365

<212> DNA

<213> Glycine max

<400> 787

tagtgacacg agtagccatc ccacccatgc gagtggtccat cttatcaaga tgctcaccca 60
caaagctcg aagatcgctg agctttgtga ggactctatt ccacagagaa caacaagcat 120
gccttcgtgg tggaggagat ggggtacgta catcaagaac aggtgggtggc aagtcttggt 180
agcgaactca ctgaccatta acatcctttc gataacaaaa ggaggtaaca acaccggcac 240
caatggagaa agacctttta accttgacat atgggttcac ctccaaagga acattggatt 300
gatgacgaca tagagtatca aggcggcgat acatgagagg tgcattgacc cgttatgccc 360
tatgc 365

<210> 788
 <211> 117
 <212> DNA
 <213> Glycine max

<400> 788

agcttgctcg ccacgattga cgaagggcac atgatgacga cgtagtctc tgcgtgttat 60
 caagcttttc gtcttacaga tagcctatag tttatacgga ctaccactcg ggtatatt 117

<210> 789
 <211> 115
 <212> DNA
 <213> Glycine max

<400> 789

ctataaatct aagcttaaca tcagaccctt ccaggtgtct gaactacttc acatttattt 60
 gatgggtgct atgcaggttg aaagccttgg atgatagagg tatgcctatg ttgtt 115

<210> 790
 <211> 61
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 790

agctntggta cctattgatg gatacctaatt ttgttgatct aattnttagc attaacaaac 60
 t 61

<210> 791
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 791

agctncacgg cagcactgtt aggattaatg caatgattgc tgaactaaa gctctacagt 60
 cgaatgagac ctggaggctc actcttcttc ctccacagaa aaccgccatt ggctgcaggt 120
 ggatttacia gatcaagtat cgcgctgatg gctcgattga aagatataaa gcacgtntag 180
 tggcataggg ctacacgcag atggaggggtc ttgattatct tgatacgttc tctcctgtag 240

catagttgac taccggtcgt cttcttcttg cccttgctgc cgtgaatcaa tggcatctgc 300
 ggcaactgga cgtaataat gctttcctcc acagacaact tgatgaagaa gtttatatgc 360
 aggttccacc gggattgacc gtttcacatc ctcaactggg atgtc 405

<210> 792
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 792

tcaagaaatt gtgaaaagaa taaggtaata tacatatata tttagtacaa atagatatag 60
 ctttacacac tactgtatga ttgtgataat taaaaaagaa aaagaaaaac agttttcttc 120
 tagtaggaaa ctaaattcat acctaggtaa agttttaaga atatctaatt acctatgcaa 180
 aatttcagca accgaggcaa gatataaaca ttgtatttta aggataatta gccactgaat 240
 gtgtccttat tcttcgcaca gcaatgagga actaatccaa atgatatcag aaaatgggat 300
 aacaccagtg acaaatagac aatagtacta acagcaatca actacggaaa gttaaggaat 360
 attgtatfff aaggataatt agacacatgt gtccttattc ttcacagaac a 411

<210> 793
 <211> 502
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 793

tgatctccgc cggactaagc acgcgctgca cttagaaatt aaccgacggc tatattacct 60
 taactattga aataaaaata agtgctatat taatgacctt tggggtaaata acaaaaataac 120
 attactcaca cattttaata ttttgtgggtg gagaataaag gtggtcgcga ctatagcaac 180
 ttctagggcc ggcgctacta ctggtatagt ataaaacttc cgacccatt ggccaaaggc 240
 tcttcgctat gcgaaggat gggggaggga tggtatcgc acccttacc cttgcatatg 300
 caaagaggct ggtttcggat tccaacccat gaccaacaag tcaccaaggc acaactttac 360
 ggggtgcacca gggctcgcgc tcctactact tgcatatgat acttaacaga aattgcgcca 420
 tcagctgcca gcagaattca catagagaag tattattaaa ttagatggca tcaatatata 480

cagtctgatg agtcagcttg gn

502

<210> 794
<211> 454
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 794

ttaaactcttc aaaggtagtc cgtctgaatt caattcaaatt cccttgcccta ggattcacaa 60
gcaggctgct aactcttgct gatttggcct tagcaaagca aatcttgcat atgccgaaag 120
actntatcct tcctctataa ccactgggtga ttccaaacga gagttgaggg cagctgagtc 180
aaatggaatc cattgcccc taactttgac ctcttttggg gacttgtctt catgatcata 240
aacatttgca taaaactcct ttacaagtgc cacatctatt ctccctctt ccaaattcgc 300
gattntctta tgctagttcc tcctgtttta ctcccttga aattcctcan agtcattgaa 360
cgacaattgc acattccttt caggaatgat ctttctgccg aagatattgt ttgtgtaatg 420
atcccatgct tcangggaag aaaatttgtg tcta 454

<210> 795
<211> 306
<212> DNA
<213> Glycine max

<400> 795

agcttgctgc tagagctgac ccatcaactg ccctaactct tttagactgg tgatccctag 60
gctcttgacc ttgacttgat agaacctctt tctaagcgaa ggcatttgac ttgatcccat 120
gttttactaa agtgaacaaa aatcgggtgcg aatcaaaaact ccaacatcta tcatgggtgg 180
aatggatgaa tgcatagaaga aatgcatatg acacatatgc aatttatgaa tacgggagcc 240
cgggaaatgg tctccttctt agatacaacg tcttggggta acaaagcgcc caacgtatgt 300
atttaa 306

<210> 796
<211> 399
<212> DNA
<213> Glycine max

<400> 796

<210> 799
 <211> 106
 <212> DNA
 <213> Glycine max

<400> 799

ttggcagaga gccagaaaca ataaatgatg acgtttaagc taatattaga aagaaaaatt 60
 gcaggaagcg aagtgatcct ttttatggct acataccaaa aacccc 106

<210> 800
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 800

gcacctgccg ctgcagcttg gacagtaa at. ggaatggtag ccctccatac atggtaatat 60
 tattcaacgg acccatacta tgattaaaag aactgaaac tggntctcga aatgtgatcc 120
 catttgatcg ttgcatcgag attctgaatg ttctttccaa ttctatttct tttctcactt 180
 catcttccag gtctcgttgt tgtgcaa atg tcatctcgcg agcaatgatt tctctcctga 240
 ttcttctctt ctctagctct cgccatattt tctctttctc caactctcgt tggaacactt 300
 cattgacatt gatcggcatg gccattagaa aaactctagg cactgaaaca tttctgggaa 360
 agccacctga ta 372

<210> 801
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 801

nngggaataa tatntaaca ctgtagtatt gaacttaacc cacaacaagt ttctagttat 60
 atgaactaat atatgtgtca cttcta atgt ttctatggct gttactttta ggtaaagact 120
 gggaagacca gcttggagca aatatcaaga gtttattgga atcaggtaag ctaaaagcta 180
 atagtcttgt ccattctttt ttcttatcca tgcaccttta tgtacttgag aatccctaaa 240
 catacatgta acaataattt ttcccatat gtaaaataac ttgacaccct cgaacttctc 300
 aaagtcattc caatttctat tcgattcgcc attggtactg gtattttcta cagattatgc 360

tcctgtcagt gttttgtaca atcaattgtc tggagttcct ctattattca tattcccaat 420
atgaatattt aaaatgaa 438

<210> 802
<211> 451
<212> DNA
<213> Glycine max

<400> 802

atcctcttag tcacctgccg catgcaagct tgaaattgac aacggaagct ctccagaatc 60
tcatatgggtg ataacttata acacgaaagt ctgattcagg cgcatagtat atctagaccc 120
tcgaaattaa acaacgaaag ctatcgagaa actcatatgg tcataaattg tcacacggaa 180
gtccgattca tgcgcataat atatcgagaa ggttggattt gaaccaccaa tgctctcgag 240
aaattcagat ggtcataact tttcaaacag aagtcgata tatgcgcata atatatcgag 300
aacgttgaaa ttgaaccacg aatgctctcg agaaattcaa attgtcataa ctcgtcacac 360
gaaagtccga ttcaagcgca tactatatct acacgctctg aacttgacaa cgaaagctct 420
ccagaaattc atatggccat aacttgtcac a 451

<210> 803
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 803

ggccgccacg gagttntccg actatgctct tgtgtggtgg aacaagctac aaaaggagag 60
agcaagaaat gaagagccaa tggttgatac atggacagag atgaaaaaga tcatgaggaa 120
gcggtatgtg cgggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccba 180
aggcaacaag ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240
tattgaagaa gatgaggagg taactatggc tcgatttctt aatggtttga ctaatgatat 300
ccgtgatatt gttgagctgc aggagtttgt tgaaatggat gatttgcttc ccaaagcaat 360
ccaagtggag caacaat 377

<210> 804

<211> 153
 <212> DNA
 <213> Glycine max

<400> 804

agcttgttct tgattattcc tgagttctgt aacttgctta gaacaataaa cttggccttc 60
 tcttatttgt ctttgggctt ggcgaccacg atcaacaaag tactttcggc acctactata 120
 tgttgactcg accaacggcg ttattggaaa gtt 153

<210> 805
 <211> 246
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 805

gcttcctttt aagtgcgtca ncgtttaana accgagtctc tgatgggtggg ggcgaagcct 60
 ttgatggtac cctcggcggg aagtgaatgg nggaacatcg acacttcctc attcagaata 120
 cnggccccca cactttgcaa tgggtgtgtat ttcaaggtaa tgggatataa tatccctgcc 180
 tatatgcttg cctcttggga agaaccttgg attcatgccc ctgggagtg tcccttcaac 240
 gattca 246

<210> 806
 <211> 368
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 806

actaatgtag ttntaaaca aaaatcaatt gaggaagctt cgccaagtat cccattgaa 60
 aaacctttat tcaaaccttt caaagttagt gaaaaggcta aacgaaaaat tagggaactt 120
 agaaaaacta aatccttaat tgaaggcgta ggtgacaatc atagtgaatt actaaacaag 180
 aatggtagtt tacttaaggt cattccagat actccccaa gctcggaaaa tacttccaaa 240
 atggtaacaa gaagtacctc caaattaatt aatattatta atgaagatag tgacccaaac 300
 tcagataaca caactgagat aggatcagtg tcagaaaaga atataaatcc aattaatttc 360
 aaacactg 368

<210> 807
 <211> 223
 <212> DNA
 <213> Glycine max

<400> 807

agcttgagat gaggaagtgt tgaaggggtga aactttctgc ttttattggt gaccacagag 60
 tggtagctgg agatatgtcg tgggggtcac gagaccttgc ggacgtcagg tgggtgtgcta 120
 ttgccccaaa ccaagcttga ccaatcccgga cccaaccggg gcatagtcgg taagtgagaa 180
 cctgtgatgt acctaaacag gcgagctcct ggcagtcaac aga 223

<210> 808
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 808

gaggtccagg aaggtttggc ggccgaagga actagttccg ctccggagta cgacagtcac 60
 cgcttttagga gcgctgtaca ccatcagcgc ttcgaggcca tcaagggatg gtcgtttctc 120
 cgggagcgac gcgtccagct cagggacgac gagtatactg atttccagga ggaaataggg 180
 cgccgacggt gggcatcact gggttactccc atggccaagt ttgatccaga aatagtcctt 240
 gagttttatg ccaatgctcg gccaacagag gagggcggtgc gtgacatgag atcctgngta 300
 aggtgtcagt ggatcccgtt tgatgccgac gctatcggcc aactcctagg atatccngtg 360
 gtgttggaag agggccagga atgtatggcg cctactangc accctttgga cccagataag 420
 tncaaca 427

<210> 809
 <211> 361
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 809

agctttgata tggaaattaa gttganagta aatgatggta tgtataagac atcaatcagt 60
 gtaatgaatg cagaaagttg tactgcgctt gagtgggtag catagacaag atggccattt 120

ggtaatctaa ccgtgatggg attaatTTga tgatatgagt gaaagtttgt taaggaggag 180
 gaaacgtgat cagtggctcc tgaatcta atccaggagg tagagtttgc tttttcgtaa 240
 gataggatta tacctgttgc atcgttattg gaacaagata aaatggaagc gacctgtggg 300
 ttggtggatg ctgagtttcc agcagatggc tgttgattata atgctagcca tgccttgtac 360
 t 361

<210> 810
 <211> 360
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 810

ntgcggatat ggtcttttca atgaaaggat caaagtgggt ctggaaaaag gcaaatatga 60
 tcatccttct tggatgaatg agaaaactgg ggcaaatgaa gaggatgaga atgatgaagg 120
 aacccatggt gaggctggca ttcttacaag gacaaacttt cctccagtt caaaggccac 180
 ctatttaagc ctgaaatcag aaatagaagt ggacgttggg cttttccttg agcttttgca 240
 tttttagata tttctataga gagaaaggtc caagttccaa agagttttga gagcttttgt 300
 tgtgcgaaga ctgacagaga actgagagtg aataggaact cattctgaga catgagatga 360

<210> 811
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 811

tgatgatgac aacttctgan atcaagaaac acacacacac acacacacac acacacacac 60
 acacacacac acacacactt tttcctagtc gatcactcac ataaanttcc attctcccc 120
 ttttgtttg aatttatgct tatcttanaa ttaagttaat tactcatgtg agttcttgat 180
 ttaatcccta tttctctcac ctttggcat caacaaaaag ccaaagtgca tatcanattt 240
 gaagtattca aatataacta aatatccata caacattcat ggaaaaaaaa tatcaaccaa 300
 atcatgaagc aagaaccatg aagcaacaat tatgaataga ttataaaatc cacatagtca 360
 aacaacatac ttaatatng ttcanatacc ataataatat agccaaaata caaggctgaa 420

gatcagagta ctaataatat taanatagac atctaagatg ag

462

<210> 812
<211> 297
<212> DNA
<213> Glycine max

<400> 812

tggcactgca gatctgatct gcgtgatcct catccacgta catttgtgtat gctccggttg 60
agtcggtgta ccccttcttc gtgtacacaa cctcgttgct aaccctgctc ttgcattgca 120
acataatctc agcacctgca aacaatcatt aatcaaacaa tacgtgttac aaactagcaa 180
caactactaa ggtaatgttt ccattcacat taaatcattc aaaattacct tctaatatgt 240
aaattttaat atatgttcac atgttttagtc tcatgccaaa aaaatgatgt tagatct 297

<210> 813
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 813

gcttcatata tatataacat aacattatgt ggtaagacct aacacgcaa caaattattc 60
tcaattagtt gatgaacttc caagatccca ttctactaaa ttctcttagn tattagatac 120
ctctaaatat atgacaaagc atggatttga atatatagat aagctcatcc ttatctttgg 180
gatccacctt agaatcaata gaatattcaa aatagtgtta aggagcaacg aaaagaaact 240
aagaacaata ttaaaaggaa taaagtgtca accatctcac tcaatgaatg aatgctntga 300
caacctcaat ggatgcagac aaaataatca gaaattctag tactaatgta tcttttagcag 360
cttatgggta cttgaatgga gaataagtgt nttttctgag cttatggctc aacttgatat 420

<210> 814
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 814

tttcattntg ctattntcct tannatttta aattntcatg ttgtaatat gtcacgaatg 60

gacagttttt agttacattt ctttctttnt tctgctttgt attattaaat agaatttatt 120
gttgagagga agcagagagg ggtgttatcg ttgagaggat gcagagaggg gtgtggcaaa 180
atgacgtaag cgggttcctt ttacaatcta tttatccac aggggtctatt tttaaacaat 240
tgtcgaagag ggtctgtttt ttaaagggtg tccaccactt ggactggcgg aacccttgct 300
tgcataaatt cccatgcatg catggttctg ccagtgggtg tagcgtaaata caacccaaag 360
ggtttcgcca atcccactag tgagataccc catgccattc atcccacat ccatcaacgc 420
catccatcca tg 432

<210> 815
<211> 429
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 815

ctaaaccttg aaaacttggtg ctattcattc tttcatctc ttctcccttt gccaaanaga 60
attcgccaag gacctaaccg cctgaattct tttgtgtctc ttttctccct tttccaaaag 120
aaciaaggac taaccgctg aattcttttag tgtctccctt ctcccttgct aaagaattca 180
aaacgacaca gtctgaaaat tcttttgatt ctcccatc cctaatacaa aagtgttcaa 240
aggactaacc gcctgagaat tcttttgat ccccatcac aatgtatcan aggtttaaca 300
gcctgagatc tttgtctaaa cacattggag ggtacatcct ttgtggtaca agtagatggt 360
acatctactt gtgtttgact gagaacaaga gaangtacat ctcttggtga tctgttctag 420
tggagggtgta 429

<210> 816
<211> 529
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 816

cgcccatcat gattgaaacg ccatctatnt angtgtgact acagataact caagctgtac 60
ggtattgcgg gcaagttatg tgctgaagat ntattntata aaattaatta attaattgat 120
gtgagttaaa tttgaaataa aataaagaaa caggacatcc atttaccaga acgtgtccca 180

attaatTTTT gttactatTT ttaattacat aaatgatata tatatatata tatatatata 240
 tatatatata tatatatata tatatatata taattggcat gaatcgaaaa tattctTTTT 300
 ttctTTTTta tcgtaatTTT aaactgtaaa aaagtaggac atTTTTTcc tatagcgtga 360
 tacatacaaa gttaacagtt aacaattgtg tntatataat atataaatat atattaatta 420
 ataatatata ttacttctag taaaaataaa ataataact gcttaataga tntgatgatt 480
 aattccatcg attatatact aatctntnta atataaaaaa ataaaactn 529

<210> 817
 <211> 501
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 817

agtcacctgc ggcattgcaag cttctgggtg ctgcgatgat cgaccagaac tgttccctga 60
 actcatccaa gtcctcaaag gcttgagact cacagcagtt aaagctgaca tagccagtgt 120
 tgggtggcaga atcaaaagca tattggtgct ttgttctaag gatagagaag acagtgtttg 180
 ccttgccact ctcaaacagt ccttcaaate tgctgtcacc aaaattgctt catcatccat 240
 ggcttctagn tgtcccgcta gaagtaagag gcagagattc ttcttgcctt ctactgcct 300
 acagttaatt atttattgca aanaatattt ttttccccac tattcattgc agtatggggc 360
 aattatttgc tctattntca atatatatat atatatatat agactcccca ttaggaagat 420
 aaaatcatga aatattagtt ctgtgcaacc aattaaggca tagttaaatt ganaggaaaag 480
 gacgcacagc atagtatgag t 501

<210> 818
 <211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 818

cgcttaatta tcttttagagg aggataccgt ccaatggagg ataaaaaat gatgttgata 60
 atcttttccct tttttacatt tgaaggtatt aaaaaaagt gtcttcatga cattattaag 120
 aaattaaaaa aattattaaa aatcatataa tgcatttaaa aatcattgga gaagacattt 180

ttatgcattt caatgaaaat atttttcttt ttattttttt taaccgctgt tcttaaaaca 240
 ttagttaata ttaccttaa aaaatgctaa caaaagatat taatgccttg ttaattagaa 300
 gtattaaaat aaaagattga ttctttntaa aatgtatata ttgtttataa tattttattg 360
 ataatacttg taattagtgt cacaattaaa agtagctttt tataaaaatt gaaaatgaaa 420
 acttccattt gaagtcagca atgttat 447

<210> 819
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 819

ttcgttggcg aaaggatcta tgtgggtctg agaagaggca aatttgatta tcctgcttta 60
 atgaatagga agcctgcggc aaatggagag aatgagaagg agggaggaac ccatgttgtg 120
 actgctgtcc caacacgacc aaatttctta ctagctcaac aatatcaata cttatccaat 180
 atcagccctt ctcattaccc accaccctat caaccaagaa cactcaatca ttcacaaagg 240
 tcatacctaa atcagccaca aagcccgct accgcatatc caataccaaa caccaccctt 300
 aacacaaacc acaataccaa ccggtgaatg gaatttctag aaaagaagcc tgtagaattc 360
 accccaattc tgggtgtgta tgctaactta actccatatc tactcaataa tgcaatggta 420
 gctataatc 429

<210> 820
 <211> 466
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 820

nttcctcat tctcacgttg cttttcttct ccccttctca tccaccattg ttgcccatta 60
 aagctccaaa ctttgctcac catttctact ccaaatacaca aaaggaagcc attttcggag 120
 tcgtgaagcg cacctctacg ttgtgggact tcaaatttca ggtttgggta gacttcttct 180
 cacataaatt ttgtgggtat tgggtctttg ggagatatga tgggtagttc tactaggttt 240
 atgccttatg gtagttatgt gtgaaggaat ttgttgaaag catgctaaac tcgtcatgtt 300
 tgatgtgagc caaatatacc cattctgttt tagggtttta taatgatgct ttgtgatgct 360

tgtgtgctga aatcattggt agaaaactgg tagagatgat ggggagagtt aacctanggt 420
 taaaagtgag aatggtagtg atgtgagtgg aaaagtgagg ttttga 466

<210> 821
 <211> 483
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 821

gcttcacact tgataatgga gacacatgaa cagtgtctatg taatgacatt catggtgctc 60
 caaaciaaagg tggagtatgg aggattgcct tgagggtccg cacttaggca atcatgaaac 120
 tcaactccaa actcgaaagt ggaggacaca tgaacagccc taagcaataa cattcatgtg 180
 gctccggaat aggatgagaa tggaggattg ccttgagggt cctctcttaa gcaatcatgg 240
 aacacaactc caaactcgaa agtggaggac acatgaacag ccctaagcaa taacattcat 300
 gtggctccga agcangatga gaatggagga ttgcctcgag ggtcctctct tatgaaatca 360
 tgaaactcaa ctccacactc gaaagtggag aacacatgaa cagccctaag caataacatt 420
 catgtggctc tggaacagga tgagaatgga ggaatgcctn gagggtcctt ctttaagctat 480
 cat 483

<210> 822
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 822

agtctcacga ttgtcacgtg ctcatgcaac atttgttagc cgtggctata tgagacatct 60
 tgccaaacaa agtcagggtta acgataactc gcctgtgctt tttcttccat gctatatgta 120
 gcaaagtcac tgatccagtc atgtttgatg atttggaaaa tgaggccgca attatactgt 180
 gccagttgga gatgtatttt cccctgtgctt tctttgacat catgactcac ttgattgtgc 240
 atctgggtcag agaaatcaaa tgttgtggtc ctgtttatct acggtggatg taccgggttg 300
 agcgatacat gaagatctta aaagggtata caaagaatct atatcggtca gaaacatcta 360
 nttgtgagag gtacattgca gaagaagcca ttgaattttg ttcagaatac tt 412

<210> 823
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 823

agctntagga gaaaccatat aaactaaggt agttcctana caaaaaacaa ttgaggaaac 60
 ttgcgaaga atccccattg aaaaaccttt attcaaact ttcaaagtta gtgagaaggc 120
 taaaagaaaa attaggaac ttagaaaaac taaatcctta attgaaggcg taggtgacaa 180
 ccatagtga ttactaaaca agattggtag tttacttaaa gtcattccag atacccccca 240
 agcctcgga aatacttcca aaatggtaac agaagtacc tccaaattaa tcaatgttat 300
 taatgaagat agtggccaaa actcagataa cacaactgag ataggatcag tgtcagagaa 360
 gaatataaat ccaattaatt ccaaactg gagaacaacc tccatattat attatcaacg 420
 tccaactggc cctgaccttc tattagagga aag 453

<210> 824
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 824

ngaaacaact cgttacataa tttgatatgg cttgggcaac agatttcata agtatttctg 60
 taccattct agaaagagat tgctccatcc acttggtcaa tttttattac acactcttct 120
 aaatgctaga gaaaatcatc ttaaactttc ccaataaagt ggtagcccaa gatatttgtc 180
 atgaaaattg taacgacctg tcttgctggt atgatcac cactctaaag tacgtaaatt 240
 ntaattttta aatgaaaatt tcattaattt gcttatgaaa aatgagagta aatttttctg 300
 gatatagatt caccaaaca cgcacaatta tttaaagaa atatatatat atatatatat 360
 atatatatat atatatatat atatatatat atatatatat atatatnaac ttagccacac 420
 tcacataata gaaaagtaaa ttagttcata catatag 457

<210> 825
 <211> 479

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 825

agctngaaca cctattagta tttatatttc ttaaataata aatgtatgac atcaactcgt 60
cattggctcc cagggttagtg gattaagcaa aatagaccaa tacaaactca cgggttaagt 120
cacctaaccc attgatccaa agtttacatt gtcacctcta cattagtgac tntttgttgc 180
ctttgtttcc ttttaagcttt ntgtgtataa aaatatattt tttcttgtgt gaaatatttg 240
tttggaattc agttttaact atataataaa attgatgggt aagtttaata tatatttaaa 300
cagtcttgat catttgatta tgaggacttg gataaaatat atattcttca aagttttgtt 360
aatataactt ggtaaataata attctaattt tataaactat ganaaataac aaaaggtaga 420
tgaattcaag ctcaacacaa tagaacaagt accaacanat actatcatac atttgacat 479

<210> 826
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 826

tctgtctgca gtagcaccac caccagccat gttaattaat ttgctctcaa acaaccaatt 60
aattctctag cctcaacgct ggtacgagct taattagtag attaagaatg ctattattag 120
taatatatat tcagttctat agagaatgat gttttgtcat atgcttacag accgtaatgg 180
tattgtcttt gcgggaacca catacactct agctagaaaa caagacatac atagttaatt 240
aattaataat gttaaagccg gcccttgga gacaatttac atgcttaagt ttcacggggt 300
taggtctaaa taatgccatt aaattatttn ttttgtttgg aatataattt atttattatc 360
atttaagttg caacaagcct tggtcgttac ttgtttgttc tattatgcgt ggagtcttat 420
tcatcgaacg 430

<210> 827
<211> 309
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 827

agcttntgac cggtgacaa gcaacaatct aagttataat atctacacca caagctgtat 60
cattgtaata acttactcat attcttcaca tttggacaga cgataatatc tacaccacca 120
gctgtcctcg aataacctga attgaaacag aataaacagc agtaatggaa taaaccccat 180
cgaagcatct gcgtaagaaa ccacttgga ggtgtgatca aatatcaaaa aggaggctgc 240
tgtaaaagcc acaaccatat catcaacata gataaaaagt aacacggtcc caaaagtcaa 300
gctcggatg 309

<210> 828

<211> 222

<212> DNA

<213> Glycine max

<400> 828

cttctgaacc ttcctaagga aatccttgat aggattgaga ctcaggaaga tatgaactat 60
attgaagggt ggtagcaaat ctttacttct acattaacgc ttctcattat gtataggata 120
cgagtgaaaa ttcatatctg ggatggggta tttcggatga atctttcttg ccggcggttcg 180
tcattcgatg ccccatatat accctcatta aagggccaca ac 222

<210> 829

<211> 406

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 829

cccgtgagt tctttgttat caccganact ctaggaggag gccaaagaaac tactgtgtaa 60
gattttcttt atttccttgn tagtggttctt gatttgtgaa tctcacttaa attttgagct 120
taatatgtgg catgcattgt gaatcacatt tttaatcttt atcagctaag ttgagttggt 180
tatgtatggt gtagggcctt tcaaggagaa acgaagcaat gagcttatat tctaatagct 240
canaatcaca tataattctc acatttgtca ttgagtcctt gtgtaaggga ctgtcaaatt 300
ttgtaattct acctaacatt accagcagtt gtgtatggaa attgtntggt tcctaagatt 360
caagccaggt ttatatcttc tctgttagtt ctattgctaa acatga 406

<210> 830
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 830

gggtgtacgt aaaataatta gcactaaagc ttatattatt ntatgtattt atcacaatgt 60
 gcaaatgaga tgattgtgtc taactttttc cataacatat aggctgatg ttttatttta 120
 gaagtttata atctgatctt cagaatttga aattttttct ttacattctt atcaaaggaa 180
 cgtcgtttta atcaggtaga gtacaattat aaacatataa attacaaaaa ttaaataataa 240
 cattntatgg tttatgatga tgagtgagat gtggaatgg gagagcaata aggaaagcat 300
 tntggatcca canaacagga catgaagctt cttgcaagtt ttcaaataat cccttcacga 360
 atcggtttgg gatctttgca aatttcttgt ctcanatcc 399

<210> 831
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 831

tgcccaagtc agcaacatac aactgtgta tattgtggat tctacaataa aaggtaactt 60
 tgaatacttc acagtcatga agtgtctacc aatctctgtt aagatagttg ttacaacttt 120
 atttaagcaa agaaatagct cctttcctta aacacaaaaa cagaagcaac aaaagttagc 180
 aaagcaagaa atacaaccgc gaaccataaa atagtgtctt tatagattca tgattcttaa 240
 tattttcagg tgtgttaaaa acgatttttc tgaaaaattt gtcacaaatc aagcttgaac 300
 cagagaatca ccacgcgcag ataattaact gcacattagg tgccgtagct atcgagataa 360
 agaaaagtag aggctattgc tcgagaagaa nagaggaaaa gcttatgaac aagaaagcan 420
 ataaattgag caaatgatc 440

<210> 832
 <211> 313
 <212> DNA
 <213> Glycine max

<400> 832

tctcctacca ctgccttaca atagtcatca agcaatatgt tggcagcctt cacatctcta 60
 tggattatct ttggatcaca ctgctcatga acgtatatta gctcccttgc tgctcctaag 120
 gcaatttgct ttcttgtgcc ccagtcacaac actggcttac ctgcaaatat ccatcactgg 180
 tatatggatc agccactcaa cttacatagc acatgcatgt tcattctagt tctgggttaca 240
 taaacttctc tatatgcacc ttgagaaga acataagaag ttagaatcaa tttatgtacc 300
 ttagttattg gag 313

<210> 833
 <211> 336
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 833

tgtacgcaca tcgttcgcgt gtatgatatt cactccacaa tgttcgaagt agaggagagc 60
 ttcaacccta taacgcaacg tggcagacaa aagtgggcag taaacttgaa tggtcgcat 120
 tgtcaatgcg gaaggatttc tgcgcttcac tatccatgtt cacacattat tgcagcttgt 180
 ggttacgtga gcatgaacta ctaccaatat atagatgggtg tttatacaaa cgagcacatc 240
 ttaaaagctt actccgcaca atggtgggctt cttacgaatg aagcggctat tcctccttct 300
 gatgacgcac ggacacttat ccctaaccaca actaca 336

<210> 834
 <211> 252
 <212> DNA
 <213> Glycine max

<400> 834

agcttgtctc gctaagcgat aatccacttt tggctctaaa cagactttt cgcactaagc 60
 acaatttcct ctcgggttgg gatttgcgtt gagtgtgaca attgatgttg agcacaattc 120
 attttgcgtt gagtgaata attcgcgttg agtgcaacct ttcattcccga gagcaattcc 180
 ttcttgggtt ggaattgcgc ttagcgtgct tctcgtgcta agagagatgt aaaaaattgt 240
 tgttctaaat cc 252

<210> 835

<211> 254
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 835

tgagatgagg aagtgtagaa ggggtgaaact tcctgctttt attcggttgac cacagagtgg 60
 tacctggaga tatgtcgcg nggtcaggag accttgnnga cgtcagggtgg ggtgctattg 120
 cccaaaacca agcttgacca atcccgaccc aaccgggca tagtcggtca gtgagaacct 180
 gtgatgtacc taaacaggcg agctcctggc agtcaacaga taaaaggaac aaagaccaca 240
 aagcatggag gctt 254

<210> 836
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 836

tgcagcttgg ttaatatag gccttgataa tcaataaagc ctattggaaa ttaatatgta 60
 aaaggtagtg actaaaaatg caaaattaca ctttagtttt tcataagcat aacatccaat 120
 acaactcata agtttataat tagtcacata agtttttcat aacatatcac aagtcacaac 180
 taaaataaaa gaaaacagtc caagtgtgca attatagaat ctagaattct tgatatttag 240
 actagcacca aatcgcta at tttttccaaa taaaaacaca aaggtagtaa tagagatggg 300
 gaggggcact tgatgtgaga gaaaagctta tctctgctaa gcctcaggcc aaagtccaag 360
 ggtgaatatg gagagatcaa aagttacaga gcaatgggta ta 402

<210> 837
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 837

tgatttagtt ntcgctgacg aaaggatcga agtgggtctg ataagaggaa aatttaatta 60
 tcctgcttgc tgcttgacg aatgagaaaa ctggggcaaa tgaagagggt gagaatgagg 120
 aaggaacca tgttgtggct gccattccta catggacaaa cttcccttca gcccaataat 180

gtcatcgctc agccaatatc gacccttctc attaccacc acccagtcac ccacaaaggt 240
catccctaaa tcaaccacaa aaccaccta ccacacaacc aatgctaaac accaccttta 300
gcacaaacca aaacaccaac caaggaaggg aatttgcagc aaaagcctg tagaactcac 360
cccaattctg gtgtcctatg ctaacttgct cctttatcta cttgataatg caatggtagc 420
gatcacccct act 433

<210> 838
<211> 111
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 838

agaggtaa at gacatatgat catttctcct acttgcgtt gcacttttgg ctatttttga 60
tacctaaagn ttccattncg aatttaatta cacgatgatg atgctggatg a 111

<210> 839
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 839

agctnngcaa taattaacac agaatngtac aaaattctta tgatacatga tcaaatttat 60
caaaaaanat aataatgacc cctgaagcta tcttggtgac agtgacaata agttgagcct 120
tgtgcagcaa aacttagtgt tgagtgaagg atgacttggt gcttgtgaat tgacttaacc 180
agtttttgac agctttacct ttggcaatga agcagccatt gttcttcccta tcaaccttca 240
acggactccc cattttgacc atcatcttct gaaccaacac tctcaccggc gactctctc 300
tgacactgct atgctttccc aaccacana ccaccgtaaa ttccgcagga actccataat 360
tggaatcatt caaccttctt ccatctctc aaccaaagca ca 402

<210> 840
<211> 116
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 840

ttctttttgt gggaatatga gtccgatcac acaagatggc atgatcactt gcagccatgt 120
 tctcaataag ctccatggct tcttctgggg tcttcaattt aatttttccc ccagcagaag 180
 catcaaataa ctgcttggac tgtggcctta acccatctat aaaaatggtg aactgaattg 240
 gttctgaaaa tccgtgagtc agtgttttcc gcagcaagct atggaatcgt tcaagtgctt 300
 cgcttagaga ctcatccaga aactggtgaa atgaaaagat ggntgctttt ccttctactg 360
 tcttagactc ggngaaatat ttcttcaaac atttctccac caattcatcc catgtcttga 420
 gactgtntcc cttaaa 436

<210> 844
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 844

agcttcatga ctagacatga cttctatgac aaaactacaa taggtggaca agtcgctcta 60
 gatttgtgag gttttcttct actttaatat ttttgtaaga attttatgat ttaggtttca 120
 gccacaaaaa ataacaagac aaaactcana tcatttgttc atgagtgtat gaaattcttt 180
 tagcctatta ttgatttga gtcaaatctt tcatgttaat tagtccttaa catgttcattg 240
 caaatgctt agagagtctt tgattgtgaa cctttgcttg aacttttatg cttccttatg 300
 attgctgcta ttgtgaatat gagtcttggt gattgaattg ctggctgaaa tgttgatcct 360
 aagtgaatat tgaactccta taactgtcgt aaacagtcct agtgagttca acatacatat 420
 gaagggtgaa agta 434

<210> 845
 <211> 376
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 845

ngaagctcaa ggaaaagctt gaagaagtn tggctattac atgcccaact ctcttaagtg 60
 gcatttgtat tgggtgttat ctnggtgtt tcttcttagt acatttgata ttgtattgc 120
 atcatgcac atcatggttt gtgtgaagaa aagtttctaa gttagaaaaa tttcttcaga 180

ggcaaaaaca ctattttaat cgattacaac cttattgtaa tcaattacga caagctgtct 240
gaagcttata gagttgagtc tcgtatcaaa ttaatcgatt acagctatct cacaattgat 300
tacattattg ttogagacaa tgactgattt attcaagagt ctctgcttta atcgattact 360
tctttctcgt ttaagt 376

<210> 846
<211> 415
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 846

agagatacaa tctactcttg gatttgcatt aaaanaaaat ctttgcattt atctttcttc 60
tgctccctgc ctgaaaacat gcatgtatag cctggtaatt ggtcaatgtc tttgctaaag 120
attatctggg ctggtgactc gaagcttttc taatttattc aataagatgc atgaataatt 180
taatcataaa tcataaattc catacatgat gtaattattc atgtatctta ttgaatatat 240
agatcttatg gttatttcat ataattagtt aattaactgg tgattatttt ctgaccaagc 300
ctggtgatta tttcatacgc ttacgtaatt aactgattct gttttatatt ttatttatta 360
attcttcata atggagatga antctacaca attcatgttt gaacacagga tgcatt 415

<210> 847
<211> 455
<212> DNA
<213> Glycine max
<400> 847

tctttgagaa aacttccttg agaagctaga gcttagctac actcaccct ctaataacta 60
agctcacctc cttgagaagc cttcttgaga agattcctat agaagctaga gcttaggtac 120
acacacctct ctaatagcta agctcacctc cttgagatga aaagctagag cttagctaca 180
caaccctat aatagctaag ctcaccccca tgacaaaata catgaaaata caaaaaattc 240
cctactacaa agactactca aaatgtctcg aaatacaagg ctaaaaccct atactactag 300
aatggccaaa atacaaggcc caaacgaagg aaaaacctat tctaattttt acaaagataa 360
gcgggctcat atttagccca tgggctcaaa atctacccta aggctcatga gaaccctagg 420

gccttccectt ggatctctgg cccaatctac ttgga

455

<210> 848
<211> 349
<212> DNA
<213> Glycine max

<400> 848

gcgagctctg accactgttc ttcccttccg cgatgcttct tttcatgtgc gccggagtgg 60
gcttatagcc taaaccatac ttccccagat tcccttgggt ttttatcaga ctagttatgc 120
cgccattgtc tttgcctaaa cccatcccgg gttcataacc ggtccccaac ataactcggg 180
ccatcattac cgccgcatct gacagacaat gttgcccaaa gagggaatcc acggaggaaa 240
tgctgaccac ctcaaaagac tggaaagcgg tttctaacga ttcttctgcg gcttccacat 300
aaggcatgga ggatgggcag cttaccaaga tatcttctc gcctgacac 349

<210> 849
<211> 106
<212> DNA
<213> Glycine max

<400> 849

gctgatgagt actattgtgg agatgattga ccattctcaa agccaaggaa catatggatg 60
cgtatatttg aatgatgaga tcattatcca acaacatgaa tttatc 106

<210> 850
<211> 358
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 850

agctttgcc aataaacaag ttctctattg ttgatactca gatcattcca ttttaattnt 60
aaatacttgg cgacccgatg cgcttgccgg tatatcactt ctgctttgat gtaagtcttt 120
gtaaatttaa gaaaaaggaa ctgtgtgggg agacgaacag taccacattg catttgagag 180
ttgaggtcag gtacatatat catactaagc atgagtgatt gaaactatgg acgaatgatg 240
actactctgt gagtgtatgt tggactaatg gatggttgcg tatgtttatg ggatctgata 300
atgttttctt actaattatt cgagttttgt attaacttct tttataataa actcaccc 358

<210> 851
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 851

tatccttatg gcttgccttc ggacttcact ccccgtagca ccccggaaga tttaagccaa 60
 gccctactt tgcaggggca gctccacact tatgacgact atcccgggca agacgatgag 120
 gaaggagata cccatctcgg tcccctgctc cacctcaaag atctgtcccc ccatgaacta 180
 ccccaaccaa acatagtccg ccatatcccg acttcacca cactcgtaaa agaactctgtt 240
 cccttcgtgg aacataaggg aaagattgag gcgcttgaag agagggttgag agcagtcgag 300
 ggcctcgaaa attaccatt cttggatcta gcggacttat gtctcgtagc caatatcgtc 360
 attcctccca agttcaaagt accggacttt gataagtaca aagggatgac atgtccgana 420
 gggcatcttc ggatg 435

<210> 852
 <211> 187
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 852

agcttgaata ggtgtcgcgt tctactgaac tatatatatt ntgggtgntt tgcaatgttg 60
 ctatcctaga tttgntatct tctctcttgg atatttttagc gtcgacatag tgtaatatac 120
 aggtatgagc ttatcaagat gaatcatttt aggggattat cacttggcat tgttcagcta 180
 ttctcta 187

<210> 853
 <211> 333
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 853

nttaggtgga gcatattana ataaactaag ttcatagaaa ggtaataaga caccttcata 60

agcccaaatg agatcttcta aacaccctct ttatccatat aactctcaaa gtattactta 120
 acaaaatttc aatgaatcct tcaaataatgg gaactgtcat ttcaatcaaa gaaaccaaca 180
 aagtccacca taaaaaagct gtcttcactc tttagactgt ttacaaaatt cactagaaaa 240
 tattctacga agaagatatc atcatatgat gtaaagcgtg ctagttaact atgcaatgac 300
 acaagccgtc caaatgcacc cattttaaga tct 333

<210> 854
 <211> 315
 <212> DNA
 <213> Glycine max

<400> 854

gatgatgcag atgggtttgt agctacctca tgcactcctc taatgactat ggcattcattt 60
 ctggcactaa actgctggga gttggaggcc atcttctcaa ttaaatttct ggcttcagca 120
 ggagtcattgt ctccaagggc tccaccactg gcagcatcta tcatacttct cttcatatta 180
 ctgagtcctt cataaaagta ttggagaaga cgctgttctg aaatctgatg gtggggggcaa 240
 ctggcacata gtttcttaaa tctctcccag tactcataca ggctctctcc actgagttgt 300
 ctaatacctg agata 315

<210> 855
 <211> 303
 <212> DNA
 <213> Glycine max

<400> 855

tcagaagaaa gtgatgaggt acaagctcta aaggcagagc ttgaaagagc ccgagtagtc 60
 gaagagaagt tcaagtccat agccatcaaa gtctgaaaag agtatgatga actaaggggac 120
 gtcaatatgg ccaccgtga agccttgga cagagaaacca agaaggcccg aaaggaagaa 180
 cacgtgcaag caaagttttg aggggcttta tatggcagca atagtttagct caagctccta 240
 agaggtgaaa ggaatcatca ctgggttaaag gcatgatctt gaaagacgag cttaaaggctt 300
 acc 303

<210> 856
 <211> 415
 <212> DNA

<213> Glycine max

<400> 856

cccatcacat gtggtactag gtggcggtcg ggcgatggtg cacaacaagt tttccacatc 60
cacaatgcgc gcataaacc accatccct gttgccacc tccatctgag ctcacgtatt 120
cccacgtagc ccatatcctc gtttctctca acaccgggtc cccatcaatc ctcccaagct 180
tccacaacat ccaatcaaaa caacattcaa acagcacaag ctatcacagc caagcaaaac 240
aggacaaagg cagaaaactc tgctcaacac accaaccaaa atcacagctt ttctcactca 300
aagacccag taacaatttc ttcgatccaa ttcgttaacc gttggatcga ctccaaaatt 360
ttactggaag tctatagtgc ataagcctac attgtgaacc gtgggatcta ctaac 415

<210> 857

<211> 591

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 857

agggcacgac ggtnaattga tcgcatctat tangcgacac tatagatact caagctngta 60
atcatgtgac accctctacc cctcacatgt atactaatat atgaataaaa ttcaaattatt 120
aattaaaagt atttttaaaa cattnttttt tccgaaacaa gtctttcaaa ggggaaaaag 180
gtcacattc attttcttct acatcatatt caaacttgct caaataaata ataaagtâat 240
ctcgtctcan acaaggctgt ctaaacttca tacaattaat atagaactta tatcctaattg 300
tcacatccta tcatagtgtt gtgttcctgt gtcctctagc atgaggttct tcatagtcatt 360
ccacctattc atctgtttcc ccgaacacaa gttcaagatc atcacaggat ccanacacaa 420
caacacacag ggagtgagtc atcacattca tagctaatag agagacaaga caattaaata 480
tagatattat ataaatgaga taccacttgc ttaaacaatag ctcacgtaat ntcaccactn 540
tgtcattcan naatcacttt tcaatcatca atcacattac acaagaatcc n 591

<210> 858

<211> 416

<212> DNA

<213> Glycine max

<400> 858

gtgtgattcc tttctttttc ttatcattct cctcatgttg attcagtctc attagttcca 60
 tttcgtgttc ctataacttt ccaaataaag ttgcaagaga catgttagaa agatcccttg 120
 attctgtaat agttgttacc tttggttgtc attccctact taaacatctt agaactttat 180
 taataagatc ctcatggga aatatctttc ctaatgatgc aagatgattt actatgtgtg 240
 tgaatctctt ttgcatatca tgtatagttt catttggtt cattctaaac aattcatatt 300
 catgggttaa ggtattttatt ctagaacctt ttacatctat tgttccttca tgggttactt 360
 gtaaggatc ccacatatct tttgcactct tgcaatttga tactctaaag tattca 416

<210> 859
 <211> 487
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 859

catgcgcta tntccttacg aacgttctct ngcacaagac atttagaccg aaaaatgcac 60
 ccatatacaa tcaaggcagt ttcgttacct agattattta cacgtacctc caagggtgat 120
 ttgttactta catcacacac atctccttgg ctaaattcac atacatgcat actcaaagca 180
 ttttggggca ccaaaaattg cacctgtgca catcttggca tttctaatac ctatacatat 240
 gcaaacttca tgatgaatct tgactatcta cacaataagg tgctacattt catgctcttt 300
 tttcaagtn ttgctaccta aagccgcatg ccaattcaag catattttcc tttgctgact 360
 aanatngtat tcaaattaaa aggtatatan ctttttgtaa tatagtttct tcacataaca 420
 tgcaacatat ttatatatat ttttctgtga gacatcttga ctaccaacaa tatatatata 480
 tacattc 487

<210> 860
 <211> 502
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 860

cgagccncng nnnntgtagc atctcgaccg cgatccttaa gcacctgggc tgcagcttga 60
 ccaacagaga gccataaagt ttgtctagga agtctaagcc tatagtgcct ggaggcgttg 120

cactctcata ccgtatgcca agagcttgaa gcctttgctt ggaagacgcc atagtggatt 180
 tcatcctcta ttctttaccc gatcactatg atagctctgc aggtacgcat gtattgtgca 240
 tacctatggt attgtagctc tggcagcagc ttcttcaacta catgcggggac tgcccacctc 300
 agacataggg cactgagtata ccactgttga tcatatggga ctccctctct tttttaatcg 360
 cgatggcatc ccactccgct gctcgtttat gacatgataa gacagctgct tgcattcant 420
 gtttaccgta atagaagagc acaaccctat tccagcgagg cacatattat tacttgccca 480
 ccatgggtct gaattcttgt cn 502

<210> 861
 <211> 311
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 861

tgagctctnt cagctacaca tggcgggtgac ttgtagagga gtgtgatgga cgaacctgca 60
 cccgacgata aactgacaa gagcttatat tctccatctt ggacaagata tggcagactg 120
 gtggcaagtc tactatcttc catcagcctt ggaacaactg tgatcgtgat cacatatcag 180
 ctaaaacttg atgggtatgc aagccatact ctactgtgc ttgaatggta acgagcagcc 240
 caatgacact gtgacccaca tgtttctcca catgcgttac atcaatgcag tgtctaacgt 300
 caagatcaca c 311

<210> 862
 <211> 80
 <212> DNA
 <213> Glycine max
 <400> 862

tcctaacgat ttctaattat gtggggccatt aagtctatca tatgctgaca atagccgaga 60
 agcccatgaa tctcttcggg 80

<210> 863
 <211> 440
 <212> DNA
 <213> Glycine max

<400> 863

cggagaggat gcttcactgg aggagaagac agagggagag atagatagag gcgggagcat 60
 gaaattgaac gatgataaac ggagagaagt tgaactatga gttgtgtctc acaagactct 120
 cattcatcaa agatacaaca tgtgttacac atgtatctat attatagact atgtagcttc 180
 cttgagaagc tttcttgaga caacttcctt gagaagcttc tatgagaaaa cttccttgag 240
 aagctagagc ttagctacac ataccctctt aataactaag cttacctact tgagaagctt 300
 ccttgaatag attcctaattg aagctagagc ttatctacac acacctctct aatatctatg 360
 ctcacctcct tgagatgaga agctagaact tatctacaca caccctataa tagctaagct 420
 tacctccatg acacattaca 440

<210> 864

<211> 566

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 864

nttgacgcat cttgangcga cactatgata ctacagctggg tatgtcaggc caaatatggg 60
 tggagtgaca aaagctntaa tttactgctt gaagtagtgc acgatctgct tccagaggan 120
 aacacgttgc ctaaaagcta ctatttgGCC aagaagatac tatgtccgat gggatggag 180
 tatcagaaga ttcattgctt ccctaattgat tgcatactgt acagacatga atttgaagaa 240
 atgtccaaat gccctagggtg tggngcatca cggtacaagg tgaaggatga taaggagtgc 300
 agttctgatg aaaactcana gaagggtcct ccagcgaagg tgttgtggta tcttcccatc 360
 attccaaggt ttaagcatct ttntgctaatt gaagacaacg canaagacct tacctggaat 420
 gcanatggga gaaactctga tggaatggtc tatcatccgg ctgatntcct ctagtggag 480
 aagattgatg gtttgtattc ggatttcaga aaagaggcaa gaaatcttag gcttggacta 540
 gccagtgatg gaatgaatca tatggn 566

<210> 865

<211> 441

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 865

ataacatcca agaaatttca acatccaaac atcatgaact atcaaaaacta agcaaaaaca 60
gggcagagggc agaaaactct gcccaaaaaca caaaccaata ccacaacttt tcttattcaa 120
ataccccaat cacattcttt ttgttccaat tcattcaccg ttggatcgac tcaaaaattt 180
tactggaggt ccctagtaca taattctaaa ttttgaccgt tgggatctcc tagaaaacgt 240
ccagaacca atctgtacta ctctttccac aaccagcaaa tacacatcat tttctgcatg 300
caciaagcca aaattctgct gcacatttca acagcaaaac tctgcataat agtgcaaaat 360
ttcgaaatca cacttgcctt tgtcctaatt tgcccaaatn gaatcctaca agtcctaaat 420
catgtataaa tcatgtctaa a 441

<210> 866

<211> 318

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 866

ataaagaggg tgaggatgag ggagaaaccc atgctgtgac tgccattcct gtacggccaa 60
gtttcccacc aaccaacaa tatctttact cagccaataa caaaccttct tcttaccac 120
caccagtta tccacaaagg ccacccctaa atctaccaca aagtctgtct accgcacttc 180
caatgacgaa caccaccttt agcacaacc anaaacacca accaagaagt gaatattgca 240
gcgagaaagc ctgtagaatt caccccaatt ccagtgtcct atgctgactt gctcccatat 300
ctacttgata attcaatg 318

<210> 867

<211> 471

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 867

agctntgcat ggatgccaca cgtgaatctt ctgtatcatc catcatttct ttcattcaca 60
accccaacaa gatgtagtac actagagtta tgggcaaagc aatcagcatc ccaaaaataa 120
cactgcattg ggttaaagaa gaagctccat tggtaggat taaaagagaa agtaattgaa 180

tgaaaaggaa aaaggaatgg aggggagaga aagttctaata tgagccatat aagaattaga 240
 tttgaatact cacgctgtgc tgagaatatc aggatgtaca ttatattcct tagcaaagac 300
 aaatgggaca attccttggg gaagagctgc ctatattttt ttgacattca gttgccaaac 360
 aaacaggaca agcaaacaaa caaacatgtc aactgcagtt tcaaatacctt ggtgtacaat 420
 cacaacatg atcattingaa tcttcactac tagtactaag atcttcaatt t 471

<210> 868
 <211> 338
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 868

ngctngagan actntcttga gaaacttctt tgagaaactt cattgagaag ctagagctta 60
 gttacacacc cctctaataa ctaagctcac ctcttgaga agttccttga gaaacttcct 120
 tgagaagctt ccttgataaa ctctcttgag aagcttcctt gagaatattc ctagagaagt 180
 tagagcttat gtacacacac cctctaata gctaacttca ccttcttgag atgagaagct 240
 agaagttagc tatacacctc ctataatagc taagttcact cccatgccaa aatacatgag 300
 aatacaaaaa cattcctact acanagaact actcaaat 338

<210> 869
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 869

tctatggagg ctggatcttt gagcttcaat gaggtccttt aatggtgatt ttccaccatg 60
 gagatgcagc ggaagacaaa ggaaaagagg tgagaggagg cgccatccac tagggaataa 120
 gccatggaag aaggagcttc accaccaaga tgagccttgg ataagaagct tggagaggat 180
 gcttcaatga aggaaaagaa agagggagag aaagagggag ggggggagcac gaaattgaag 240
 gaagaaaaag ggagagaaaag agggaggggg gagcacgaaa ttgaaggaag aaaaagggag 300
 agaagttgaa cnttgagttg tgtctcacia gactctcatt catcanagtt acaacaagtg 360
 ttacacatgc ttcta 375

<210> 870
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 870

ntttagaaaa aatcttataa gttagtacat acctaaatag ttctttaaga tgactatatt 60
 atgcttaaat aatctttaga aatttcaact caataacccc taaagtcag atattcaatt 120
 aaaactatca attatntaa aagagaatgt caacatttgt gatattcaat tgagactttt 180
 cacaactaat aaaaagggtat tcttctatta aaaaatatat aaattttgat taattatttt 240
 ctagagtga ttttgtgtca attctttagt atgatgtata aattctagac tcatccaaca 300
 atttcaccaa aactttcctc atttctgttg aaacatactt aatatgaagt tntgatgatg 360
 tcacaagata agcggttctc aagtttaatc caagttaaga actcagaaat tcaagataaa 420
 tgaagaagta gtccttaaga gtcttagaaa gcattct 457

<210> 871
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 871

gactaaacat tcattgggta tttatttgta ttcattatgc gatataattc gctgtaaccc 60
 gtcactaacc aattaatatt atcaactact cgtttggtta agcaaggaaa ttgttggtcc 120
 aacaaaaatc atttacggt acagcatata tcattgtcat aattgacaac acataatgac 180
 atgcatgctg gttacagttt gagcgtgaca acacattggt ngacttcagt acacattttg 240
 aaactagcag tcgctcaaca acacattggt tgacttgact acacattagc gacaacacat 300
 tggctgactt gactacacat ttacgctgt ctatttggtg tgaaacanag ttaaacaag 360
 gtcggtcac aaccatctat atatatggca gactangcta ctaaatcaca cattatc 417

<210> 872
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 872

cttgacagct ctatggacca tgctatcatt ctctctgcta gcttagtatt tcttagcacc 60
ttcttgatgg ggtgatcctt cttgacgatg atctaagggc tctggaagta cggcttgagg 120
cgttgagcag aggttatgag tgctagcgcc actttctcga tcatttggtta tctctttcca 180
acatcatgaa ggatgtgact gacaaagtag atgggtgttt ggtactttcc atcttcttgg 240
acaaggggtg aactaatggc tttttctgcc actgaaaggt ataggaatag ggatgctcca 300
ngcttangtc aacttataac aggtggtgtt gcaatagtn tctttatagc tagganagct 360
tgcttacagg ctctgtttca caagaacgac tcggttttcc tgagtagctt at 412

<210> 873
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 873

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accaaaattg aggaccgttt tgtaattntg taatttacia ttactttacc ttcattttctt 120
tcaagttttg taacaaaaag gcctttcatt ggaagtgtgt tgggagcctc caataagtta 180
ccaaacttcc atttgtgtgt aataattcta ggcaattttt ccttaagata gtgagtgttt 240
tgttgggaac cttgaatgtg gtcattccaaa cactcttang atttgcctag ttacattttc 300
ttgcttactt tcatagctta tttcctttac ctccctttt aaaaccacct agatagtttt 360
ccttttacca attagtnttt ttaccttacc tttcacacct cttttagt 408

<210> 874
<211> 321
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 874

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ttttgcaggt gaagctgata ttgatgagga ggaactaaca gatttgaggt caaatccttt 180

tcaaggtgga gtggatttta atagcacaca aaagtcaagt caatttaact cctttttaat 240
 agcaaaacaa gtcaattcta catgtaataa tacaatagaa attgtctcta gctaaattaa 300
 aactaagtta atcttgtatc t 321

<210> 875
 <211> 463
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 875

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 aagtttgagc tttttgggtt cactacatcg ccaagaggag ttccacaaat caatgtttta 120
 tttgatgttg acgttgatgg catcgtagaa ttcattgcta gagataaaat catgaggatg 180
 aaaaaaagga tcatgatcga caacaagtac tggaggttga gtccctaaga gatgaggaga 240
 atagtgaat atgcaaagag gtataaggca tangatgtgg aggtaagggc aaacggaagg 300
 ccagaacttg cttgagaatt gtgcttttga aatgatggac aaagtgaaga atcttaagaa 360
 attagtaccc atagcaacaa tgttattntt tttagtttca ttaacaattc agtaaaaaaa 420
 aataccgtgc gctaacttga aatgcccncn gcacacatgg ata 463

<210> 876
 <211> 510
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 876

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 gagggagata cccatcttgg cccctgctc cacctcaaag atccatcccc acatgaacta 180
 cccagccga acatagtccg ccatatcccg gtctcaccca caccgtaaa agaactctgtt 240
 cccttcgogg aagataaggg aaagattgag gcgcttgaag agaggttaag agcagtcgag 300
 ggcttcggta attaccatt ctcgatattg gcagaattat gtcttgtgcc caacattgtc 360
 atcccttcca attcaaagta ccaaactttg attagtacca agggatgaca tgttcaaang 420

ggcatctcgg atgtatttgc tgagatggng catattctgc ggacaannag tcgtgggtcat 480
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<210> 877
 <211> 383
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 877

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 ttacttttcc aggtggagct aatattgagg aggaggaact aacaaatttg agatcaaadc 180
 ctcttcaagg gggaggggat gatgcaatcc tccctaggaa gggccagtca ctagagacat 240
 gagcaagagg ctccaagagg attgggctag agctggtgaa gaaggcccta nggttctcat 300
 gagcctcatg gtagatttct gagcccatgg gacaaggttg ggtctaatta tctttgtaca 360
 tattaacta ngatgtcatt ata 383

<210> 878
 <211> 490
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 878

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 gagccacctc tatagccttg gtagcttcct tgaaagtnt gttgaggtct agcttggttc 180
 tgtagatatt cggcttcctc ttcttgttgc catcaccagg tgctgaacag tggccattct 240
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 ttttctatgg tccaccttcg tgatattgct gagtcagttg gcctatctac tttgttaagg 360
 gcctcaattg ttgcgtcaag agnttgtnnt gagctagaat ntcactctga gtgtccagct 420
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 tatggagtta 490

<210> 879
 <211> 472
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 879

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 atcatcattg atcaaaatgg gaaaatattc gccagtgtaa ttttttataa tttgcaaatt 180
 gaaagccttg atgtttatat gtctctgtta aatgtgtttt atttgctaag tttttatagc 240
 tgtctcaata atttggttaa ataagttcaa catgcacttg atgcatgcta tcgaggatca 300
 ctaaaatatt ggcataaaag acccatgaaa tgggtctttg tggctctgatn tactggactt 360
 gaatgaattg aactacacat cgctataatg ttcaagagtt cctggcttct gcaatattat 420
 tctagtttat cttgataaaa ctaggaacat ctcgattgat aatgctggaa gt 472

<210> 880
 <211> 284
 <212> DNA
 <213> Glycine max

<400> 880
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 agtgcgttaa tctctccatt agaatatgca tatgcgctat cgcgtgatct ctatcaacaa 180
 attcgtctct gtcttcgtag tccatgggtg ccatcaacat accatcaaac atctcgtcta 240
 ggcataaatt gtctatcatc ttttgcgat cctgcctagg atct 284

<210> 881
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 881

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tcaagagcct catggataat gataagatct tcactaccct aatctaagaa aattagacga 180
taaaacaatn tatgtttggt gattacatag tggcactaat atgtaaatgc aaaaatgctg 240
acctggccat gttcattgaa agtatcgagt ccaacaattc caaggtaag atctccagat 300
aacaattttc ttgtgatgta tttgggcctc ta~~aa~~acc~~aa~~ ctttgagttt ggatagctgc 360
aataatgcaa gagaattggt ttatggtcat gtagagatat agtacattga 410

<210> 882
<211> 371
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 882

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attaaggaat atgccc~~aa~~ag atggagagat tntgcagctc aagtcgtacc gcccatgatg 180
gagagggaga tgatcacaat tatggtagat acgttacc~~ca~~ cattccacta tgaaaagctg 240
ataggctaca tgccagctaa ctttgcggat ctctgtcttcg ccggcgaaag gattgaatcc 300
gggctacgaa naggcaagtt cgaatatgct gccaatatgg ccccca~~aa~~ caagagaaga 360
gccccagtag t 371

<210> 883
<211> 254
<212> DNA
<213> Glycine max
<400> 883

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ggcttatagc ctaaaccata cttcccacga tttccttgag tatttatcag gctagttatg 120
ccgcccgttg tttttcctaa acccatcccg gggtcaaaac cgttcccca~~aa~~ cataactcgg 180
gccatcatta ccgctgcac~~c~~ ggacagacaa gggtgccc~~aa~~ agagggagtc cacggaggaa 240
atgctgacca cctc 254

<210> 884
 <211> 101
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 884

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 cgattatcgt ctcccctttcc atcattgggg gtaccacttg g 101

<210> 885
 <211> 300
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 885

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 aggagacatg ctttacttgc tatgcttgaa actaagttgg ttggtctcga gtctttgaaa 120
 gacatgtatg tgcattgatgt ggactttgct gaaatttttg ctgcatgtga aaagtcttct 180
 gaaaatgggt actataggca taatggattc ttgggttaaag caaataaatt gtgtgtgcct 240
 aagtgttcca ttagagagtt gcttgtgagt gaatcacatg agngnggggtt gatgggacac 300

<210> 886
 <211> 331
 <212> DNA
 <213> Glycine max

<400> 886

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 agagttatga ccatttgaat tactggcgag cttccgttga tcaatttcga gcatctccaa 120
 acattatgcg ccttaatcgg acatccgagt gaaaagttat gaccatttga agttctcgag 180
 agcttccggt gttcaatttc gagagtctcg atatattatg tccgtgaatc tgacattcat 240
 gagaaaagtt atgaccactt gaatactcga gagctttcgt tgcgcattt cgagcgcctc 300
 cgtatattat tcgcattaat cggactttct a 331

<210> 887

<211> 233
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 887

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 ctcttacc accaccagt tatccacaaa ggccatccct aatcaacca caaagcctgt 180
 ctaccgcact tccaatgacg aagaccacct ttagcacaaa ccananaaaa cac 233

<210> 888
 <211> 336
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 888

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 tctccatcac ccacagccac cattagccac cacaaacct cgttggtctc cattgaaacc 180
 ccacaccgag aggaaccctt caaccgaagt ggaatcttc aacttggtt gcggtttcgg 240
 tagagaacaa aaccctaata tgacctttcg tttcttttg agactatntt agtctcaaaa 300
 ttatcaagaa ctacgtaggt ctgagttcct catcac 336

<210> 889
 <211> 563
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 889

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 ggaaacgaga gaaggataat ttccactcta aggacataag gagaggaaa gatattcctc 180
 atcaaagagt gggagatagc tatacgacca gatagataat tccaatcca agactgtgag 240
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THE

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<223>      unsure at all n locations
<400>      890
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<210>	891
<211>	461
<212>	DNA
<213>	Glycine max

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atttacctga	gtcaacttta	tcagagagaa	atcagacacc	tttgaagtat	tcaaggagtt	180
gagtctaaga	cttcaaagag	aaaaagactg	tgtcatcaag	agaatcatga	gtgaccatgg	240
cagagagttt	gataacagca	ggtttactga	attctgcaca	tctgaaggca	tcaactcatga	300

gttctctaca gccattacac cacaacaaaa tggcatagtt gaaagggaca acaggactnt 360
gcaagaagct gctanggtca tgcttcatgc caaagaactt ccctataatc tctgggctga 420
agccatgaac acagcatgct tcatccacaa cagagtcaca c 461

<210> 892
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 892

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gcttgtggtg gctggccagc tgtgaatctt gtgtgatata tgggtttttg cctctggtaa 180
tcgattacca aggggtgggta atcaattaca aggcttaaaa atgaagacag gaggctaaga 240
tggtctctgg taatcgatta ccaaaggggt gtaatcgatt accaggcttg aaaacgaggt 300
caggaggcta tgagggcttc tggtaatcga ttaccaaggg ggtgtaatcg attaccaggc 360
ttaaaaatga angcagcang ttgtagaggc ctctggtaat tgattaccag tctgtgtaat 420
cgattacaca gaggaatggg tcaactggtaa tcgattacca cgtat 465

<210> 893
<211> 238
<212> DNA
<213> Glycine max

<400> 893

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cttcctaaat gaatgtatga tagtgtggaa tgcctttttg aatgcaaata tgtgcatgat 180
gtaaatagct atccaatatg catataaata aatatgagtg aaacaataac aatttgta 238

<210> 894
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 894

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gcagttttat tatttgggct catttagcta atttgatggt tttaatctaa ttttaggaat 180
taatgaaaca ttgggcttaa tccggatttt ggttatggac ttgaagaggg caaataaagc 240
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gtgtttattt cgtnntgggc cagagtattg taatagagcc cagtgacttt gagtgactct 360
ttntaaatag cagccttggg attcgtgcaa ggcattctat tatgctattt tcattattc 419

<210> 895
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 895

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aagtatgtct cattacaatn nttttatggt tnttctgggt atttaciaat tcatattgct 180
cctgaggatc aagaaaacac cacattcacc tatccctttg gcatttttgc ctataggagg 240
atgccctntg gcctatgcaa cgcctctggt accttccaac ggtgtatgct tagcattntc 300
aatgattntt tagagagttg catagatgtg tntatggatg attntactgt ttatggatcc 360
tcttntngat gcatgttga tagtctagat agagttctta at 402

<210> 896
<211> 396
<212> DNA
<213> Glycine max

<400> 896

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ccgctgcata tccatgggtg aaaatcacca ttaaaggacc tcattgaagc tcaaagatcc 180

agcctccata gaagccccac aagcaagctt ccatcagagg aggagctcac ccctcttgag 240
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<210> 897
 <211> 354
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 897

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 aacgcttact tgacagatga gcagttcatc atagctatcg gaaggtgaca ttatctctta 240
 ttcttaatta cccttaatt tgtacatgca ttattaaaca accttttaaa acaaaaatac 300
 ttcatcaata ttagctctca agtctaaatt agatgccatg tatcatattt atat 354

<210> 898
 <211> 446
 <212> DNA
 <213> Glycine max
 <400> 898

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 ccttagatgg tcgaatccgt cacaacaaca accttatttt caaatgttg ttggccaag 180
 cagaccatat gttcctccac cattccagca acaacaacaa caacaacatc ccagaaaca 240
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 gcaaaacatg cagttttaac aagagaccag agcctccatt cagagcttaa ctaatcagat 360
 gggatagttg gctacacagt taaatcaaca acagtcccag aattctgata gataccttct 420
 aatctgtcag aatcccaaaa tgtgag 446

<210> 899
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 899

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 aatagcttga ttcaccctta aaaagaacta cgtatgtctg atttcctctt cgatggaggg 180
 tacgtagaag caagagccct gcttttgtcg acctcacaaa taaaaaagaa ataaaaagtt 240
 tatgtacaca atttcataca attcaataat taaggctggt gtcctttgag acaaacgtga 300
 gaggtgctaa taccttcctc aaacgtaa atcaactccc aatctggaat attcttcatg 360

<210> 900
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 900

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 aacacaatat agtgatgggc tactgtcat 449

<210> 901
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 901

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 ctatccagaa ccatatcaaa attgtactaa tactgcctaa caaaggcaac caataggtcc 240
 ttccaagaat ggactcggga aggttccaag ttagtgtagc gggtaacagc taccacagta 300
 agactttctt ggaaggaatg tattagcaat tctcatctt ttgcgtatcc ccccatcttc 360
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<210> 902
 <211> 565
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 902

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 gttgtacacc agcagcggtt cgaagccatc aagggatggt cgtttctccg agagcgacgc 180
 gtncagctca nggaggacga gtatanctga ttccaggagg aaatagggcg ccggcggtgg 240
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 aatgcttggc caacagagga gggcgtgctg gacatgagat cctgngttag gggtcagtgg 360
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 cgatcatcnc accatatgac acccg 565

<210> 903
 <211> 381
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 903

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tctgtaacgt ttccatgagt aattacgga agattctga cgtttcttca agattcatcg 180
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 cattctatgt acccggtggg gtccacattt tgtttcatgt atttttattc tcattttcat 300
 ttactttnta taccaccttt tgacgtgctt aagccattta tttaagtcac ttctcgctta 360
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<210> 904
 <211> 387
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
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 cacgtagccc ttatcctcgn tccctcacaac gccgggtccc catcaatcct cccaagcttc 180
 cacaacatcc aagtaattca acattcaate atcacaaact aacacagcca agaaaatagg 240
 gccaaaggcag aaaactctgg ccaaaacaca aaccaacatc acagcttttc acattcaatt 300
 acctcaataa gagtctctgt gttccaggtc ggtaaccgct ggatcgaact cgaaattata 360
 ctgggaagct ctagtacata agtctac 387

<210> 905
 <211> 130
 <212> DNA
 <213> Glycine max
 <400> 905

gagccttggt tccctttcct tgttttgaag ctactacaa gccttaaagt aaaaaccatg 60
 atatcaccat atccttaagg aattttggag ctttggaatt gttttgggaa taagtgtggg 120
 gggggggggg 130

<210> 906
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 906

tattacggac ctatagatac tcagcttcaa gacaaccttg aaaagatggg aattagcttt 60
ntccttcaca ttcagcanat tcagcattta aatgtgatat ttaatgttat gctnttttat 120
gccatgataa ttgggtggaat gaatattatt tatttgtaa ggtttcatga tatcgaatat 180
tgatacctaa naagggtaat atttcaagtt gtgtgattag tggtattttg agatgaaaca 240
ccaactatat gtaatcttat ctttgcatta tcaagttggg attaaaaatt tgtaatctat 300
tcgttgata tgatagtagt agggactcat aaggatntac ttagtaagag gcttaaccta 360
aagtaagaat ttgtttttct gagacaaaac tgcagagatc atcntgtttt attatta 417

<210> 907
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 907

cgtgcattca atatcctgat gaggagggtc catatgtctc aagactggac taatacattt 60
gctgtccaag tttcatgggc ttgcagggtga agatcctcat aagcatctta agaagttcca 120
tattgtctgt tccaccatga agccccctga tgtccacgaa gatcatatct ttctaaaggc 180
ttttcctcat tctctggagg gagtggcaaa agattggctg tactaccttg ctcccaggtc 240
cattaccagc tgggatgacc ttaagagggt gttcttgggg aaattcttcc ctacatctag 300
gaccactgcc atcaganaag acatttcagg catcangcaa cttagtggag agagcttgta 360
tgagtattgn gaaagattca agaaattgtg tgcaagttgt ccccaccacc agaattttga 420
gcaactcttt ctgcaatatt tctatgangg acttancaac atgga 465

<210> 908
<211> 588
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 908

gggaccacgg ggnnnnaatt gatcgcatgc tattangcca tactatagat tactcaagct 60
cgagttgagg aagtgtagaa gggtgaaact tcctggcttt attcgttgac cacagagtg 120

tacctggaga tatgtcgca gggtcaggag aaccttggga cgtcagggtg tgtgctattg 180
 cccaaaacca agcttgacca atcccgaccc aaccgggca tagtcgggtca gtgagaacct 240
 gtgatgtacc taaacaggcg agctcctggc agtcaacaga taaaaggaac aaagaccaca 300
 tagcaaggag gcttgtgggtg gctggccagt tgtgaacttt cattgatatg tgggttatgg 360
 cctctggttaa tgcattacca aggggtgggtg atcgattaca aggcttaaaa atgaagacaa 420
 gaggctaaga tgggtctctgn gtaatcgata ccacggngtg taatcgatta ccaggcttga 480
 naacgaggtc aggaagccat gagggcgctct ggtaaatcga taccaagggg tgtaatcgat 540
 taccaggctt ananaggggg atggacattg tganggctct gtaatcan 588

<210> 909
 <211> 267
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 909

agtatgacag tcaccgcttt aggagcggtg tacaccagca gcgcttcgag gccatcaagg 60
 gatggtcgtt tctccgggag cgacgcgtcc agtcaggga cgacgagtat actgatttcc 120
 aggaggaaat aaggcgccga cgggtgggcat cactgggttac tcccatggcc aagtttgatc 180
 cagaaatagt ccttgagttt tatgccaatg cttggccaac agaggagggc gtgcgtgaca 240
 tgagatccta ngtaaggggt cagtgga 267

<210> 910
 <211> 361
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 910

tacggatgga atacttactt ggtgtgatga acaagagcgc gatacagaat ctataaatgt 60
 gcaaaatgat gaccctangg ctgctaactc gtaaataccg tgggtatggc tcttgaaagg 120
 cgaaaaaaga agtttatgaa tgcaaaaacg cgcccccttt cgtcattctt atatattggt 180
 gcanggggtg ctgcccagg cgagctaacc tgcattatct tttttgagag gaacattaac 240
 catgtccact ccttcctttt agcgctttgc ctaacttgaa cttacttaag ttagaatcaa 300

gcgttgatta cttattttta ataacaaaca gatagtaaga taactgcgaa tacaaaggat 360

a 361

<210> 911

<211> 471

<212> DNA

<213> Glycine max

<400> 911

agcttctcct actgcaattg tcaaacacgg tgtctaaatg tgagttcgaa taacaacttc 60

ttttacatgg tgatcgcgga tgtacatccc aactttagtc atattcagat tctcgttcaa 120

actagcgtcc accattgcac tccaacctac tcaatatagg agggctccat atttcaattg 180

tgctataacc acgcattctc tctaattctc ccttgcacct tttttcattg aaccaatcct 240

agaaaaaata tttgcataat gaatcacctc cgaatctgta ctatccttat tgctccaaag 300

cttttcattc catctcctcc aaacactcca taacatcata gcaacacgtt tcccttgccg 360

gactgatagg acttgaatta atctgaatat gaattcaaag cacgaactct catcaaatat 420

cgttaggtcc tcaacaacat cccaagtgga agactcttaa gttaaattatt t 471

<210> 912

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 912

tatgcattgt ggaatttcac cagagagagc attgtttgaa acatctcaac ttgttgatgc 60

tttcagctta accgacttca aagggttaggc tttccattga acgagttgtg ggacaagttc 120

aataacaatg acaagtanga aagaccaatg acttgcaaag gaatagttcc actaattctg 180

ttgtgtgaaa ggtcaagggg attgttaaatt tggcaattcc caacaccagg atgtatgctt 240

ccttccaaca cattatttga caagtcaagt tgaaacaaaa gactaagggt gccaatggat 300

aatggaattt ctctgacag tttgctcaca tttaaattca atgactgcat cttttggaac 360

atgacaaaag aagcaggaat agtcccagta atctgatggc caccaatat 409

<210> 913

<211> 442
 <212> DNA
 <213> Glycine max

<400> 913

gatcttaagc acctgcggtc gcagctttgc ttaagacatt gtcttggttg tttgcttctt 60
 tatttttttc tggaaattgc tagtttagta taggtccttg atttttgggt tatttgtaat 120
 aaatgtgtac tccttggtt tgaggcttaa agcttaagta tagagtagtt gctttcaaga 180
 atagtgttgc tatggaaatt tcctttaaat ttgcgggcaa cgtcaaacca aaatcctacc 240
 caatgttttg aaatccatca tactgcgcct ttagaattcg aagaatggta caatgatttt 300
 aatgggtccc accactgggt tatactgtat taaatatcca ataaatatac ataaataatg 360
 gaatcacgtc ttagacagaa atgttacata acaatactac aaataatcac atactactat 420
 gctacgaata atcactgatc tg 442

<210> 914
 <211> 524
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 914

ngagatgagg aagtgttgaa gggtgaaact ttctgctntt attgttgacc acagagtgggt 60
 acctggagat atgtcgcggn ggtcaggaga acctggggac gtcagggtgn gtgctattgc 120
 ccaaaaccaa gcttgaccaa tcccaaccca acccgggcat agtcgggtcag tgagaacctg 180
 tgatgtacct aaacaggcga gctcctggca gtcaacagat aaaaggaaca aagaccacaa 240
 agcanagagg cttgtggtgg ctggccagct gtgaactntg attgatatgt gggttatggc 300
 ctctggtaat caattaccaa ggggtgggcaa tcgattacaa ggcttataaa tgaagacagg 360
 aggctaagat ggtctctggt aatcgattac cacgngtgt aatcgaatac caggcttgaa 420
 nacgaggtca ggaagctaag gaagcctctt gtaatcgatt accaaggggt gtaatcgatt 480
 accaggctta naaaggaac tgggagatga tggaagcctc tggn 524

<210> 915
 <211> 305
 <212> DNA
 <213> Glycine max

<400> 915

ggctgcagct tattgctaca aggcacttac tcttctagcc ccaagagact cagcataagg 60
atgcacagac caaagttgtg ttgtataaaa aatgtgttga ccaatggaag gtgctaattg 120
caaaaacaaa tgaaagctat gccaaagcaag ccaaaaaaaa aaggaaggaa gtggttcttg 180
aaccgggaga tgatcttggg cattcgagga caaatgtttt ccaagaggga gggatgatg 240
agaatcatga aacaggccaa atacagtcta aaggcccaag tggagaagga cgaaggccca 300
agtgg 305

<210> 916

<211> 353

<212> DNA

<213> Glycine max

<400> 916

tcattgccta acaagccaac ttacaacatc tagccccaag agactcatca taatgatgca 60
caggtcaaag ttgagtatga gataagattg tatgaccaa tgaagggtgca tattgcaaag 120
aacaatgata gctatgccta gcaagccaac aagataagga atgaagtggg acttgaaccc 180
tgtgatgac ctggacattt gaggacaaat gttttccaag aaggaggga tgatgagaat 240
catgaaactg gccaaataca cgctaaaggc ccaagtggag aaagactaat gcctgagtgg 300
agaatgacaa taaccctgag tggagaatga tgaaagccca agtggagaat gat 353

<210> 917

<211> 404

<212> DNA

<213> Glycine max

<400> 917

actcagcttg tcatgaccgg tctcttttgg gcattattga tctgtccaaa cttaacagct 60
cattcttttt gaacatactg aataatcagc caggagctta caagcgtaca agtggaaaaa 120
ttactcaact cttaaagtat gttctaagtc tgagtaatgg aaatacatat tgcttagtat 180
ttaactacaa tgtttacttg acggatgagc agttcatcat agctattgaa aggtaacatt 240
ttctcttatt cttaattacc ccttaatttg tacatgcatt attaaacaac cttttataac 300
aaaaatactt catcaatatt agttctcaag tctacattaa atgccatgta taaatattat 360

ataaaaagttg ttttcatatg ggattgataa gcgtgtgtgt gtct

404

<210> 918
<211> 453
<212> DNA
<213> Glycine max

<400> 918

agcttggcgg caaccacctc cctttttttc tctataatag gggaaaaagg gcagagtaat 60
ttggctcaac ctttctggaa tttaggattc tcttgaaatt agagagaaaa attgtttccg 120
tgaagaaaat caataccgac gcccttccgt aatgcttctg agacattttc gtgagcgatt 180
ttgtaaagat tcttcaccgt tcttcacgcg tcttcgttcg ttcttcgctg ctcttcggtc 240
ttcaaccggt aagttcctga aataaaacct ttcaattcat tctatgtgcc catagtggtc 300
cccacctgtt tcacgtgctt ttattttcat ttcgtttctg ttccgtaccc ctttttgacg 360
tgctttaacc attatttaag tcgctttctc acctaatcaa gtaataaaat gagattccac 420
caatcatttg agttgtaata tcgtttaatc tct 453

<210> 919
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 919

gcngcaccgc tnaaggtaaa gactcttcct gtggccttca aacttccaat atggtcattc 60
aggccctcac cattctgctc cttcttggga tatgggcaat ctctctaaat atgccccctc 120
tgtcaatagt tgatacaagt cgcgccttta tcagcataat tcgaggaaat gtgccttggc 180
ttaccacatt tgtaacaagt gatctgagtt gataaagaag tgggtttgct accattacca 240
ccagcaaacc ccatagcatc agtcctctga ttgttggggc gattaccata tgtcttaaga 300
ggggttgagt acgatcttcc ccgttgggtga ggtccattct ttttgttctt cattngncct 360
gcactcctat aatacgtgc cttgtatcag aagcttcac ccaatccgga catgttacc 419

<210> 920
<211> 245
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 920

cacaacaagc tttcacatcc acaatgcgcg cataaaccce ccatcccctg gtgcccacct 60

ccaactgagc tcacgtactc ccacgtagcc catatcctcg tttctctcaa caccgggtcc 120

ccatcaatcc tctcaagctt ccacaacatc caagcaaaac aacattcana cagcacaagc 180

tatcacagcc aagcaaaaca gagcaaaggc agaaaactct gctcaacaca tcaaccagaa 240

tcaca 245

<210> 921

<211> 397

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 921

cgcttaatta acctgatatt gagaganaat gattattaaa tacacaaaat ggaagtacta 60

agtatttatt atctatatTT aatagaaaat acttataaca ttacaaaata accataaatt 120

ggaagagttt gatacaattt acacaagttt tatacacaaa agttcgtcgt attcaccgac 180

taacatagca caagacatat ccgtggaggg tttcgagggt atagtcaata acatcacgac 240

caacaattac ctcactttcg ctgacaaaga gatactcgtc gagggcaggg gacacaatgc 300

acgtgtctgt caaatgtttg gacaacatan gggccaaagt gctcatcgac aatggctctt 360

ccctcaatgt catgcncaaa gctactttgg acaagct 397

<210> 922

<211> 406

<212> DNA

<213> Glycine max

<400> 922

ggctgcagct tctcgatata ttatgcgccga gaatcggacc tcagtgtgat aagttatgac 60

cattttgaat tttcgagagc ttccattggt caatttcaag cttctcgata aattatacgt 120

ctgaatcgga ctttcgtgtg ataagttatg accatttgaa ttctctgaga gttccattg 180

ttcaatttca aacttctcga tatattatac gtctgaatcg gactttcgtg tgataagtta 240

tgaccatttg aattttctga gagcatccat tgtttaattt caagcttccc gatataattat 300
gcacatgcat cagactactg tgtgaaatgt tatgaccatt ttaattttctc gagagcttcc 360
gttgttcaat ttcgagcgtc tcgatatatt atgcgcctga atcgga 406

<210> 923
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 923

ctattacgga cactatagat actcagctag aattgaacac ggaagctctc aagaaattca 60
nattgtctta tactttcaca cggaacaccg attcaagctc ataatatatc gagactctcg 120
aaattgaaca acgaaagctc tcgagaaatt caaatgggtga aaactttttca gacgaaagtc 180
ggattcagac gcataatata tcgagaagct tgaaattgat caacggaagc tctcgagaaa 240
ttcaaattgt cataacttgt cacacggaag tccgattcag gcgcataata tatagagacg 300
ctggaaattg aacaacgaaa gctctcgaca aattcaaattg gtcataacta ttcacacgga 360
agtctgattc aggcgcatatc tatatcgaga ctc 393

<210> 924
<211> 382
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 924

atgccccaca ttattttccat gacacaaatg ccaaaatgat gatttggaaa cttcatgcaa 60
aacttgtcat gcatgcatct atgcggacac tcaaattgtca aattttttatg gtcattgtgat 120
gctaaggctc aggattcatt tctctatatt ttaatcaacc caatgtttcc aaaatatggt 180
cttttatcaa tttgtgcatt catccgagtc catttcgggc gtccgggaaa tttcacagca 240
ttcacccttc aggcgtagac acattttccca aaaattgggt atgggtcaatg aatnttttca 300
aagaaaagtt ggaaatcgtc tcttttcaaa agcatgtcat ttttagctag acaacttatt 360
ttctttnttt ctctttcttc tt 382

<210> 925

<211> 386
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 925

nggttcgagg tacttaccog ttgaagatcg aagaacgatg aataacgaat gaagaacggt 60
 tgataccttt gcgagattcc tcacggaaaa cgttacggaa acgtttcgga agtgcctcgg 120
 cttagatntt cttcacggaa acaattnttc caagcaaatt cgaaggagag agaagtgcct 180
 aaggggctgg acccctttct tcttcatttc ctcccctatt tatagcaaaa taggggaggt 240
 ggttgccgcc cagctcgccc aggcgagctc agctcgccca ggcgagcagg gttgcttctt 300
 ccagaagcaa ccgccttctg gaggaatatt ccagagggcc caagtgggcc tgggtgctat 360
 ttgcaccnnc cattttacta agtaca 386

<210> 926
 <211> 419
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 926

cgccatnntt tgtttaatat gtntnttttt tcaataaatg gaacttcatt ttatacataa 60
 ttgggtattag tataactatc aagtttcaac tattagaaat taaactagac attataactt 120
 ttaaagcagt tactattata agaattaata ttttttcata atatatagca atccatgatt 180
 agtttacagt atacaaaata tntatttcat taatatattt caattaaatt cttgataaat 240
 aaagacacan ttttaacatg atctatcgtg tatatgaaag tgtcttcggg cagaatataa 300
 ctctaacaaa atttctaaaa catagatata tacaatatca tataaaatat aaaataataa 360
 aattttaaac tacaatggca aggtntataa tgttataact tcgggtaaca aaaaaaaaaa 419

<210> 927
 <211> 438
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 927

ctgggtttaat gaaacatgca gnccatgtgc gccactgggtg cgagtagaac ctgaaagtgt 60

ggcgtagctg cttactgtga aggcgccgaa actgtgatgc cacaaacttc aagtcatcgg 120
 ctttcagggc aaaggcttcc acttctgaaa gggtttggac agtcctgggt gaggtangaa 180
 ggttgggtga agaagtagga tccaaagccc acgtgagaag ctctctcca cagaagtcac 240
 cagccttgag gtactcagag ttgaagaagc cggttcttcc accgttagtt gtcattggta 300
 atagcttgcc acgcattatg aagagcatct catcaaccgg atctccctcc cggacaatgt 360
 agctttcttc tgtgtaagca ctggcttgag aaagcgcaca ttgatncaga agtgttcgtc 420
 atttctcaac attggacn 438

<210> 928
 <211> 491
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 928

tagtagcagt taccagaagt caatattgtg ccaatgacta tcatcatttc tatcttacct 60
 antttgaatt atggccttgg tttgtgtgtc tagattgaca ccagactcct aaatacacia 120
 tatctttcat tgcaagctta gcaactgtcc caaaacccaa gtttattcga aaccaagtgt 180
 catgatttct atattaccaa ttntgctagt tgtaaatgtt gaatcatagt tttgctctct 240
 catctgcctt ttgtctcatc tctttacctt acaacttagt caattctatc attacccttt 300
 ttcaatatgc agaatcagca acatgcaaac atatctaac cagcaaagtc caccatcaat 360
 agccaggcta tggccagaa ccaacaaaat gcctcatgtc ccatttcttt catcttctaa 420
 atntattgga gcttctgcag attaaaagaa gcattngttc ttcatttcac atgaatctac 480
 tgggttagtt a 491

<210> 929
 <211> 348
 <212> DNA
 <213> Glycine max
 <400> 929

agaagaagtt catagagatt gattggattg tcagaaagat tgaattgatt gaaaatgcaa 60
 aacaaagcct tgcttttata gactcttcgt gtctgggtcaa gaagaccact tagaagagtt 120

ataactttta gaaaaactta aaaccaatth gaaaaagtca aaaccttttt gaagagttac 180
 atcttttgat ttattcagaa acaaacaactg gtaatcgatt accaaattag tgtaatcgat 240
 tacacaaagc ttttgtgtga aaggatgtga ctcttcacat ttgaatttga atttcaacgt 300
 tcaaaggcac tggtaatcga ttaccaaacc attataatca attacaac 348

<210> 930
 <211> 408
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 930

ctgatcanat gactaanatt aatcggcaca acagatattt agcagtagga gggaggcctc 60
 caacatacac ccgcctagca tatcatgtac cctgttaaatt caatacataa agacaggcca 120
 taatcaggga aagtcagtgt aaacttaaaa tgaaacttat ataagactgt acttagtctc 180
 ggcattgcctc cactactcga aagactaaac ttaaaacgtt ttgtgttgag gaagttagt 240
 tgtctctact ctgtatgtat aatgactctn ttcttctcaa tgaaagagaa tatcttcttc 300
 cagtagcaca atgatactat acaaacaaga gcgcaatata nagaaacaca tggtaaaaga 360
 agaccacaca cctttcatct acagcagcac atgatactgt aatatatg 408

<210> 931
 <211> 455
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 931

agcttctcac atctgactct ctagttccaa cgtgggtgtt tctcttgatg cacttcctcc 60
 gatcaccttg accaatggaa tctccttccc tcttaggtgc tttgttcgcc tatctttgat 120
 cctcaaaggc aatgttccat atgtcaagtt cttcttcact tgtacgtcat ccaatttgat 180
 cacacgagat ggatcatgga tatactcacg aagttgagac acatgaaaga caatgtgaag 240
 gttagaaaga gacaggggta atgcaatttg gtatgccac agtaccgact ttttttagaa 300
 tttggaaagg acagataaaa tgaggtatga gttattgnga tttcaatgct cgaccaactc 360
 cagtccacaa agtgactctc aagaatacat gatcactaac ctggaactcc aagtctttcc 420

tccttcttgt cctgatagct ttctacctac tctga

455

<210> 932
<211> 328
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 932

tctacttcat aacccttga actacttcac attgatctat ctggtcctc tagaacaatg 60

agtttgggtg gtaattacta tggcttagtt atagtagatg attactcaag gctcatatgg 120

actttgtttt aacaaaaaat gaagcttttg gtggctttta aaaacttgcc aaggtgattc 180

ataatgaaca aggtctcaac attgtttcac ttagaagtga tcatagaggt gaatntcaaa 240

atgagtcttt tgaaaactnt tgtggagaaa atggaattca ccataatttn tcttgcccaa 300

gaacacccca acagaatggg tttgtgga 328

<210> 933
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 933

agcttggaga tgatgcttca atggaggata agtaagagag aaggggggag cacgaaattg 60

aaggaataaa agaggggagag aagttgaact ttgaagtgtg tctcataaga ctttcattca 120

tcaaagttac aacaagtgtt acacatgctt ctatttatag actaggtaac ttccttgaga 180

aaacttcctt gagaagcttc tttgagaaaa cttccttgac aagcttgagc ttagctacac 240

acactcctct aataactaag ctcacctcct tgagaagctt ccttgagaag attcctaaag 300

aagctagagc ttagctacac acaccncta taatagctaa gtcacccca tgccaaaata 360

catganaata taaaaaaaag ttcctattac aaagactact canaatatcc tgaaatacaa 420

gggtaaaacc ctatactact agaata 445

<210> 934
<211> 458
<212> DNA
<213> Glycine max

$\frac{d^2}{dt^2}$

<210>	935
<211>	401
<212>	DNA
<213>	Glycine max

agctntttctt	tacaatcaat	ctgtctgcta	actaacaatt	ctaaatgcaa	gttcacattc	60
ttgtttctttc	tttgtctaac	atacatacta	gctcaaactc	atgaaaagaa	acacaaactc	120
catcaaaaatc	atgcactcaa	tttaagtact	tgtagttttt	cgtgagggaa	aataacttgta	180
cttggggggca	tgtcactcgg	tttggaactc	ccttgtgact	cgggcttata	accattgggg	240
gtgggggtgga	gttgctctgt	cacaacagga	tgaccttgac	acttgcctacc	cagctttctt	300
gggtgtgagt	gtcgtgtggg	aatgctcang	ctatttcatt	acgaatggta	ctacattgca	360
tttgagagtt	aaggccaagt	gcattgcatt	tactaagcat	g		401

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<223>      unsure at all n locations
<400>      936
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384

agctccaaac tcgaaagtgg aggacacatg aacagcccta agcaataaca ttcattgtggc 180
 tccagaaaag gatgagaatg gaggattgcc ttgagggtcc tctcttango aatcatgaaa 240
 cacaactcca aactcaaaag cggaggacac atgaacagcc ctaagcaata acattcatgt 300
 ggctccggan aaggacaaga atggaggaat gccttgaggg tcttctctta agcaatcatg 360
 gaacacagct ccagactcga aaatggagga cacatgaaca gccctaaagc ataacattca 420
 tg 422

<210> 937
 <211> 506
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 937

ntttgctcat ctcgtccagn gatccttgag tcacctgcng catgcagctt gaagaaaaat 60
 tagtattaat gtatgtaatg tataatntag tggngaatat taaggctata ttaatgatga 120
 tatangattt cattagaatt agaaaaaggg gtaattaacg tcatatagag tctaaaagtg 180
 gagggcattt ttggtaatga ctatacaact agtttaaaaa taggatttta atttaattaa 240
 ttgggtgacta attaaagtgt ctaattatta tgatgtaaat aattaanata agttagagtt 300
 gaacaccctg^gaanattataa ctcagactga cataaaactc tatgtngggc atctgtgtgt 360
 gtatgaagtt aatttcagta gctataccgt tttaatcata gaantntcgt gctatgatat 420
 atgtatgtga ctggtttagt aagcttgact gngaataga ctacctttgc tagattcatc 480
 agtgcacatt tgactgtgat taagcn 506

<210> 938
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 938

ngtanggtta aagtctcacg atagtcacgt gctcatgcaa cagttgttag ccatggctat 60
 acgagacatc ttgccaaaca aagtcaggtt agcgataact cacctgtgct ttttcttcca 120
 tgctatatgt agcaaagtca ttgatcctgt caagtttgat gagttggaaa atgaggccgc 180

aattatacta tgccagttgg agatgtatTT tccccctgct ttctttgaca tcatgattca 240
 cttgattgtg catctggTca gagaaatcaa atgttTgtgt cctgtttatc tatggTggat 300
 gtacccgatt gagcgataaa ttgcanaaga agccattgaa tttttttcag aataacttaga 360
 gaatngctaa acctgtggcc ttctgagtct cgcattga 397

<210> 939
 <211> 422
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 939

agcttgtaac ttatataata tatacatTTT attgtaatta tattttaaca catcagaatg 60
 gtgcgcccatt aaccacagg tcccaggatc gaaacctggt tctgataaag agtggcttcc 120
 gatctatcac atatatatat attttatgcg taaaacatat atcattacgc aatgacattt 180
 gagtataata aaaaatagtt ctgcagggcc taacatttca gtgcttatat taatttagtt 240
 accatttaaa ttttattatt gagtcaactt tttaacgtat attcatattt tctctttggt 300
 aattntattt taatttgctt aagtaaacad attttttatg gataataatg gcttccagtt 360
 tcttagtgaa ccacatctga aaaattatac ttgaacaaga agatgtgttc actatgtcat 420
 ag 422

<210> 940
 <211> 427
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 940

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 gcaacgtgta agcattgcgt tagctataat ttatgaagaa ccacttctag ttctataatt 120
 gtacaacata ttagcatatg ccaaactatg tgtatcattt ggatcaccaa aataagaata 180
 ttacctcaat aaaatctcct ttTggcatta gtgctctgca tgcattcteta ntcctttggt 240
 atggTgatat taaactagtT atgcaaataa caccagcatc tgcaaagagt ttagccacct 300
 cacctganaa ttntatatcg tgatgtctaa ttattaataa aacaataaaa tataatcgga 360

agatatcagg gaaagcattt agaaagcaac ataagaaaaa acagataaac tcaccaatcc 420
 ttctaata 427

<210> 941
 <211> 119
 <212> DNA
 <213> Glycine max

<400> 941

tgcttgagag acttctatgg atgttggatc tttgagcttc actatatgtc cttcaatgg 60
 gattttcaat catggagttg catcggaaga taaaggagaa gaggcgagag gaggtgtca 119

<210> 942
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 942

agcttggtgc attaagcgat attccactnt tggcggtgag cagcacctct tgtattgagc 60
 gaattacctc ctcgggttgc aattgcactt agcgcacagg tctcggttaag aaagttgtcc 120
 aaagatgtta tttgaaaaat ctcaatagta aaaaatgtag gcatgaatca agaaagttgc 180
 agttcatggt tgaaggtgat ccaacggtta acgagtctgg gatcatggtt ttactgaaat 240
 aggttaaaca aactccacat aaccttattg ttcacaccaa gcaaccgcac acaaataagt 300
 cacacaacac ctcaactaat ccaacttaat caaagaatgc aagaattata ttaaaccatct 360
 attttcagtt atcaatattn taggctgtta caaaagacct tttcttgggt atcaacacca 420
 aagtattcaa gaatcttggg gatcagaact gcatagggac acctganaaa aac 473

<210> 943
 <211> 357
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 943

tagatactca agcccattca aatgaaagga attcataatt aaaaagttga gaagggttca 60
 cngaagagaa tntcaaaatg actctgaatt gttttgtgaa caaaatggca ttaatcgtaa 120

W E I T Z

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<223>      unsure at all n locations
<400>      944
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<210>	945
<211>	349
<212>	DNA
<213>	Glycine max

ctaacctcat	catctctcat	agtctntaga	tntgngagcc	aatccaatcc	ttgcgtccag	60
actctcagcc	acttatgata	gccgccgatg	ctcccattac	tgcttcccct	aagctctatg	120
tcctttcttc	acgccgcata	ccatgccttg	cgaactcctt	ggagtaccct	cgcgttgtgg	180
tactgaaac	cccgtgcat	gaaaggcgtg	atgctttcgt	ctgatggcac	tcctctcatg	240
gggtagccaa	gctgtcttat	ggcgaggacg	ggattataat	taatacaacc	ccttgttcca	300
tcaagggaac	atttggacat	ccttcgcatg	aagatagaat	cctgattct		349

<210> 946
 <211> 156
 <212> DNA
 <213> Glycine max

<400> 946

cattctctct cattatcata ttagcattgt aggggggttc agagcattta tacttcttct 60
 gtatctcgag gaatggtcta caaaccttga agcctagcgt tagttgtctt atacgactaa 120
 attctgtata gaaaaacctt tgtcacagca tgtata 156

<210> 947
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 947

atctaagggg ttcaaaatgg aattgtgcat cgaaaactag ttctcaaaac ttggatacag 60
 tagtgtagaa gtaacttata gaaaagagat agttatatag aagagtaaag aaaacactaa 120
 ggttttatcac cggttcacct caactcttgg gctatgtcca attgtctttc aaaccttgaa 180
 gggttccatt aatcaattct ttgattacaa tcaggtattc tctatgtcac ttctggctat 240
 aatgagtact ttgtaccact catgggaeta cccttaatct cctcatgagt taagacttaa 300
 gtattctttg tcactaagtc attcctagcc ttcacaaaca atatatgttt gatagaaaat 360
 gattctaatac actcanagag tgttaca 387

<210> 948
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 948

tcacacatac acacaacana tcanagcana acaaacatcc aatcactgta taattacata 60
 ctacaaaagc ctccataaca taacatcatc ctcaattctc aaaccctaaa caacaaagca 120
 cccccgccac caaacacgca cacacaagca gctaaatatc attcaagaag taggatattg 180
 ccataatcca caaacctaag aaaccacaaa actaaaccaa gcaccaacac cattccaaaa 240

acacctcaca aaacattcac acacacacaa caaaccaaat aaaaaacaca cccaccacca 300
 attcacatcc aaatcccaat caaacaccaa tcaataacac caaatcaac ttccaacaaa 360
 tccaagccaa canacagcca tcaactacta canaccaact 400

<210> 949
 <211> 384
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 949

cgccagcttc ttatccaagg ctcatcttgg tggatgaagct tcttcttcca tggcttattc 60
 cctagtggat gacgcctcct ctacactctt ctctttgtc ttccgctgca tctccatggg 120
 ggaaaatcac cattaaagga catcattgaa gctcaaagat ccacccctcca tagaagcccc 180
 acaagcaagc ttccatcaag tggatcaga gcacaagagc ttcaagtagg tgctccttaa 240
 acttccatta attnttttgc tttaccttct ctccattgt tggttcttca ttntttctcc 300
 atgtatctcc tcacatgtct tgtgctaaat gttgtaaca tgattcttta gagtttccac 360
 caattaaact tgctatagaa gcta 384

<210> 950
 <211> 341
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 950

tttctacttc ttccctgcc aatgtacata aatgtagctt atagcatatt ccatagaaga 60
 atctcatggc tacttatatc tgtgtaatgt gatattcgac aaaataaagt ttccattgt 120
 gtacttttaa gctaataagt gaagacactc attgtgattg tcgttgcgct ttatctcctt 180
 tatgtttaat tactcatttg acccctatag ttatagaaac tttctctttt agtccctata 240
 cttaaaaaaca tcccctntta gtccctacac attccatttt tattcccttt cagtctctac 300
 acatcattnt aatcccttgt agccgctatg gtgaggacta a 341

<210> 951
 <211> 464

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 951

agctntngng atacttggtt catagcaata tggtgtttgt cttgaaatga tatttttagca 60
 gatatgtgat gcagctctgg gatctcttga tttccttgag tttcaatatt tgtagcatt 120
 tactactggt ttgcatcaat tttgtcttct gtgacccct tataatgtgg attaattcaa 180
 ttgagcaaat ctgttcgtn tatgctcagc ttctataagt cttttcattt acagatatat 240
 tgtaatatg ttattgagtt cttggtttaa aactagttat tgttattgta tctacccttg 300
 atttaaaact agttaaatat ataagatact ataattcaaa agggcagata gatccaaact 360
 tgatacacat tttcacttga gagaatccna gtctgtgtgt aatcatcgcc ttccatttca 420
 atgggattag gtgatggttt tactcatggt atgactctat cata 464

<210> 952
 <211> 309
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 952

tgagcttaat gaattaattg attgattgaa cctggagcct attcagttgt atcttctgct 60
 accttatattt aagttgtagg agagcatcat ccacagaaga tggttcaagg aaaatttgct 120
 ccaaatttgg gggaggtatt atcaacgtaa atntgttcca aatttgggga aggcactcgg 180
 taacgattga aatggtcaaa gaaaatagta tatacacact ggctctatta tctgtgttaa 240
 aaaaaaacca ataaaaaact gtacgtataa ataaagttaa taagtgtgta tgctataaat 300
 tcaggcatg 309

<210> 953
 <211> 481
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 953

ggatccttaa gcactgggct gcagcttaag aaaaggccaa actctccttt ccaaatttg 60

attttaggct taaatagggtg gctttgttcg tgcttgagcg cttagcgcaa ctctgaaccg 120
 cttagcacga attagtgaat ttcggcttaa cgcgtgcttt tctcgctcag cggatggact 180
 aaagcgggtgc gcttaacgag atgacccttt gctcagtga catgcacagc tcctccttct 240
 tctagattct tctcgcgct cagcggatag ctcgctaagc cagtagattg gcttagcgag 300
 aaggtgaaaa tcagcacctc acaaactttc ctaattaacc tgaaattgag agaaaatgat 360
 tattaacac acaaaatgga agtactaagt atttattacc tatctttaac aaaaagtaat 420
 tacaacactt acaaataacc ataaattgga ggattntggtt acaattatgc cagtttatac 480
 a 481

<210> 954
 <211> 436
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 954

gggattccta gggcctaagt catatttggc actntattct agcttctaca aactgtccac 60
 aactcaaan atgcagtcac atatgtacaa attntttcca caagctaaat tccatataaa 120
 cacacgcaaa tgccattgag gcatgtcacc gaacacttga tgggtgcatg tttagacatg 180
 aaaaaataa ggaacgngg gaatgtgaca tgcccattca tctcagagtt cacaataggc 240
 ttgcggccat cccatacaac cccccaattc aaacaaacaa gcatgaatcc aaacattcat 300
 ttctcatga aatntgaaaa tacaagcaaa caaagcacta aaatacagca atggcaagcc 360
 aaagatcana ggagaatgac acttaattgt anggagtgga acaaaatgca taaaggagaa 420
 caaaaactca acaatg 436

<210> 955
 <211> 384
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 955

agcttgtctt ctctagcctc tnttngctt ttctacattt ccttagtgac aagtcattctg 60
 cctagaagtt tcttgtcttg acctggttgt tgtgtctttc tcattctgcca tgcattcca 120

THE

tcttagaagc ttactccgca caatggtggc ctacttggaa tgaagcagac atatctcctt 360
 ttaatgacgc acggacactt atgcctgacc taactacgat tcacgcaaca tgtcagcgca 420
 gatcaatacg gataangact gatatggact ggatcatacc atntgatcgc cgacngacac 480
 gtaatacacg tggagcctaa ggggctacat gcatgctgcc tacga 525

<210> 958
 <211> 523
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 958

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 tattttattac ctataacttaa tagacaatac ttataagctt acaaaatagc catatattga 120
 gagagtgtga tacaatttat acaagtgtta tacgtataag ttagatgttc tcaccgacta 180
 acatcctatc aaggatcatca aaattagacc agtttccatt cttgaatgac cctaacaaag 240
 catgcatgta cgtgatcaag gtaaaggcat actagaatga atagctgata gcacagagaa 300
 cacaccaaac atcattaaat agatagaatg atatttacat caagtaccta caaggaagat 360
 ccaacagagg attntagctt tccatatcca ggaagccttc tttacaacan agagaagaat 420
 aagatgacag agtgctgcta tacaagcggg gaggatgtct tcttcacctg taggatctca 480
 caaccactca agaactcatc tcagactcat agaaacggct tcg 523

<210> 959
 <211> 304
 <212> DNA
 <213> Glycine max

<400> 959

atcggtgaga gtgtaacctt aaactgtgag tgaacgacta gctgtgagta ataatctttg 60
 catgaatctc tgaatttttag aatgaaatgt ataactgaga acatgatgaa ggccatgatt 120
 gtacatatac aagctctttt gaccaaacia cttaccttga atgataattg catcctttgc 180
 tccctttttg agctgaatga tggtgtaaaa aatttgaacc ctaaactaaa ataattatgt 240
 cttgatacct tggttagatt ttaggagagc atatggttca aggcaaactt actctaaatt 300
 tggg 304

<210> 960
 <211> 344
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 960

tctggtggga catcttgact tgcintccaa tctgacattc accacanatt ctgccttctt 60
 ctattttcag aatgagaatg cctctaacaa cacctttgtc aatgattttc ttcatgcctc 120
 ttaagtgcag atgtccaaat ctttgatgcc atattctgac ttcattcttct ttggaggata 180
 gacatgtgga ggagtaactg gtttcttgag gtgtccatag gtagcagttg tcctttgatc 240
 tgctgccctt cattagaact tcactcttct catttgtcac caagcattct gactttgtga 300
 agtttacatt gaatccttca tcacacagct gactgatgct gatc 344

<210> 961
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 961

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 taggagaaac ataaatagtt tactgattag aattatcact ctctctctct tgtgtatcac 120
 tccatctctc aagtgtatca ctcttccttt ttctattcct ctgtgatgcc tcactattgg 180
 ccctctcttg gtctctcttt tctctccttc tgattcggac atcacacact tctctgaggg 240
 ataaagtttt atgaataatt ttctggatcat ggtgctggag agaaatcttg tttgagaacc 300
 catcatgcac tgctttggag tcctcctcaa tgatggccct cactagtgcc atctccatct 360
 ncttatcact aacaatcaaa ctttc 385

<210> 962
 <211> 247
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 962

<210> 965
 <211> 330
 <212> DNA
 <213> Glycine max

<400> 965

aaaaaaaatt aaaaattaaa accagggttaa gggagcttac ttggtggtga ccctttttca 60
 catttccttt ttcccaaatt tggaattact ctttttatgc cgaagccggt taccggaaag 120
 tggctcggat cggccaagta ataattaaaa cggaatgata cgagtgtcaa cacagggaac 180
 ttattccttt ggcaaagctt tgttcaacaa tcatgcattt tggtgacaga aaataataat 240
 tgtgaattga agtaaaagta tgatatatcc taattgaaaa gcagtaaacg tgagcaaata 300
 agtgtgaaaa cagtgatcta aaagcattgg 330

<210> 966
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 966

tgattntngt tctgattgca tgatgctagg atagttgata gttaanatag tgtaggaat 60
 tatattttca tacaatgtat gttgttctgg ttaggaattg atggcctaata ttagaagca 120
 agcttcatga tgatgaacct agcaattttg acgatgccaa aagaccaagt gattgattca 180
 agacttcaag atcaagcatt aagaatctaa tccaagattc aagattcaag agaagaaatc 240
 aagaagcaat aagtcaagac ttcatatagg ataagtatta aaagaatttt tcaaaaacaa 300
 aatagcacag ttttgggtata caaaagaatt ntctcaaatt ntttaagtta ccagagtgat 360
 tactctctgg taatcgatta cctgttatca gtaatcgatt accagttgtc ataccctaata 420
 t 421

<210> 967
 <211> 488
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 967

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 ttatcatccac agctagtcaa gggtttctac agctatgcac ttgttgaccc ttgaagtaac 300
 ctctcttcta aataaatgga gtaaaatagt cttgatctat tgatggaaga agtactggct 360
 ggatatgggg gagtcacaat tctataaacg atgatgggac aacagatgag actatganga 420
 tgttctgacc tttagaactg aaaatcctaa agtgtggctg ttgagagcaa atgtgttatt 480
 ctt 483

<210> 970
 <211> 376
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 970

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 ctaacttaaa ctgagtttca tctgcagatc cctcttgtag caatgcaaaa tagtactcta 120
 acaggagatt ctttggtgga agtagtggat tataccatca agacaagaga gcagataaca 180
 aagttaatta cttcaccaca acttgcttcg cgcccaggaa agaataaaac attatgctga 240
 cctcaaacga gtggacaagg agttcaaatg tggagaccta gtctatttaa taattcactc 300
 atacaagcag cttactttgg canactatgc tttccacaca tagcagccac tagcgggtcta 360
 tgtaaagaaa catcat 376

<210> 971
 <211> 338
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 971

ngttatatac ggaagacaag aaaatgggat atgaacgaaa tgatgatgaa agcttagaat 60
 ctagacatga attgaaagtc tcagattcga aaacttaccg gttgaataat gaagaacgaa 120
 tgaagaatga atgaagaacg acggaaaacc atcatggatt tgctcacgat aacgtctcgg 180
 aagcattaca gaagcacctc ggcttggatt ttcttcacgg aaacaatttt ttttcaccag 240
 aacagctgaa atgcatagcc aggggatccg ggatccttgg aacaaccccc tttttctctc 300

tttataagaa aaggcgagag gatgttgctg cccagctc

338

<210> 972
<211> 393
<212> DNA
<213> Glycine max

<400> 972

aagatctaac agattcaacc taatgttcat gagaatgatt gttgcagata atattaagat 60
aactctccct aagactgata atgctaaaaa gtttatgggg ttagtgggag agcgctctca 120
aatagcttat aagtctcttg ctgggacatt agtgagtaca ttgaccatca tgaagtttga 180
tggttcacgt actatgcatg tacatgtcac ttagatgaca aacattgcaa taagatttaa 240
gacctcggga atggttgatga ataagaactt ccttggttcag tttattttga actcattacc 300
atgtgtgtat gacctgttcc aaatgagcta taataccatg aaagataaac ggaatatgca 360
tgaattgcat agtatgttag ttcaagaaga aac 393

<210> 973
<211> 277
<212> DNA
<213> Glycine max

<400> 973

aggattgatg gcgaccagct attgagagat acgaggatat gggctgcgtg ggagtacgtg 60
agctcagttg gcggtgggca acaggggatg gtgggtttat gcgcgcattg tggatgagga 120
aaacttgttg tgcaccatcg accgaccgcc acctagtacc acatgtgatg ggtaccccat 180
aatcctacaa gcttgagatg aggaagtgtg gaagggtgaa acttccttgc tttagttgtg 240
accacagagt ggtacctgga gatatgtcgc gggggtc 277

<210> 974
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 974

agcttctaga gaggttctaca ctactctaatt attctccttt ctacactntn ttaaaaagtt 60
ataaaaatttt ttagaacctc tccaatcaag aaggaatccc aacacattcc ttaatgcgga 120

tatcttcatt tcaagaagaa ttaagtgatg aaaatataag gttggcttga tgataaaggg 180
tgaaggaaga gagggatagg aatcttccgg ttaacaaaaa ctaataaatt aacaactaac 240
atctaccgat aaaaaaaaaa aagatagaat taagtgatta gttttatctc cttttcacat 300
tataggttct tcaatgtttc ttcacaattt ctaaacatt gtctgtagac tgctccaagc 360
ccagttcett ctcaaacagc cccagagaaa tgacattgat gtgtctaata taagttctct 420
cttagtctta aaatttcaaa tgtagtgttt actatac 457

<210> 975
<211> 577
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 975

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tagtcggcag acttatctga atcttttgaa gatgagagaa cacgccaatt aanaagagaa 120
agggagaaac ttcaagaaca tgggtcttcac tcttcacgtc caagagaaga atccccacaa 180
atatcacaaa caactcttcc acggatttca ccaatccaag cactcacgtt caaagcaaatt 240
aacaagagca acagaatcaa acccatcatt gtcttttgtt tttccatggg tgagattgaa 300
aaaaaaacaa caaanaatgg tatctttcac aagcactatg tctttggatt ctatgagtag 360
ttttcttata accataatgc tcttaaagga tgtttatggc tcatagtgcg tggattnttt 420
caccgacatg atatcttata ttatgtgtaa gactatctga actntatgtt aagatcactt 480
ggattctcaa ttttaatgga tggttntagc taataaaaga atcttatatt gtacgcctac 540
aaataaaaaga acaaatcgtn taactttaca ttctttt 577

<210> 976
<211> 460
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 976

agctnttagc attntacat attatataat ggctagcttg ttatatattc tcttaactac 60
atggcatgcc aagatatcac taatatgttt aatgtccacg gttgtttctg ttaagtttgg 120

gctacgtgag ttgactctga taccattatc attatcatga tgtactgttc atggacccaa 180
ctatatatta tattattaat tactaaaata agagttagtt ttaaaacact acaacttttc 240
tactataaat gtattggtga aatcattcat tgaaatgata atgctactta catatatata 300
ttatttaaaa atgtatatta taactntacc acttctctaa aaaaacaaaa aanaaaactt 360
ttccatttta cataaatatg taatatgggtg ttaattgata tgtatcaagc atttattttc 420
actaacccaa gtctgcagga attctatgta ctttgcatt 460

<210> 977
<211> 307
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 977

tgcataaatg agaggaaact tgagtaagtt ntatttataa atatatatta cagatgatca 60
tcttttaatt tcgaaaaatt atattcactt ttattctgca ataaatgttt agttattttc 120
tggtgaatta gaatttaatg ctgatttttc aattaatcat ttctaaacta atatcatggc 180
ttgtggacat tggaatctat tacattagtt tccccacgct aaaaaaaaaa tagtgatggg 240
caacaattgc ggcgttattc catgtgcatg gagatcaata caccgacaaa atagtgaatg 300
caccat 307

<210> 978
<211> 260
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 978

ctttgatagc cctttntgag ccttgtttcc ctttccttgt tttgaagctc actacaagcc 60
ttaagtga aaacatgata tcaccatata ctttaaggaat tttggagctt tggaattggt 120
ttgggaataa gtgtgggggg tttttgtttc attggacaac ttgttttggt ggctatgctt 180
catgatgtat tctgggcat acttgatgta cattgtatat tggttaaatg ttggacatgc 240
tgaatgaaat gttgtttctc 260

<210> 979
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 979

tgaaggaag agagagatcg atcacgagca catagcatgg tcttaanaga agagtttagca 60
 gcttgcttaa ggtccaaaag gaacttgact cagcgtttgt gcgagacaga gatcaacatg 120
 ttggctatca tcaccaagta tcaataagaa ctaagtctag ccacagccca cgagcatagg 180
 gtggcaaacg agtatgcccc agtgtacgcg gaanaggagg ctagaggaag ggtgatcgac 240
 tcgttacacc aagaggcaac catgtggatg gaccaatttg ctcttacctt anacgggagt 300
 caagaacttc cccgattgct agccaaggcc aaagcaatgg tggacaccta ctccgcccnc 360
 gagggagatc acagacttct cgactattgt cagcatatga t 401

<210> 980
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 980

gcagctaact accatgcact acggatatac tctaaggaac gcaaaaagta acaacaaaga 60
 ccacattaag aactacatat gcagcgacct caacgcaaaa gtattacctt cactcctcgc 120
 aaccaaaggg aacaacacac caaaggaaaa atggaaaaca aagggaactt atccaaaaac 180
 aaagcatgaa agtcagcaaa caacaaaaaa ggacgcgaaa agatagaaca agaaggaaaa 240
 atttagtaaa gaatcataga acgtgaagta aacaacaaaa caataacaaa ccgggtagaa 300
 aaacagctac agccgcgcca aacacagaca tgcacaacag acgtaaaaaa cttacacctt 360
 gaa 363

<210> 981
 <211> 366
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 981

cgctcgtgga gcttctatgg aggctggatc tttgagcttc aatgaagtcc tttaatggtg 60

attntccact atggagatgc agcgaaagac aaaggagaag aggtgagagg aggcgccatc 120
 cactgtggaa taagccatga aagaaagagt ttcaccatca agatgagcct tggataagaa 180
 gcttggaagg atgcttcaat ggaggaaaag acagagggag agaaagagat aggggggagca 240
 agaaatcgaa ggaataaaaag agggagaata gtggaacttt gaagtatatc tcacaagact 300
 ctcatcctac anagttacaa caagtgttac gcatgcttct atntatagac taagtagctt 360
 ccttga 366

<210> 982
 <211> 514
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 982

tgcnttattg ctctatctac tcccngatc cttgagtcac ctgcggcatg cagctntcng 60
 gtgcggtcta ggacacaatg tcaattcata cgatatgcga ggatgactcc ccgagcaagt 120
 tggatttggg atgaccatgc cctcctggtt tctgactang aaattggcga gtggaggagc 180
 gcccacacat ttacgcgaca agcataatgt aaccctttgt ggctnttaaa ctctacggng 240
 gggcctangc tntagagatt ccttttggtt tggcattatg tcttttggtc ttgaatttat 300
 aaatataaag atctttcttc atctgttctt gcacctctac ccattctcat tcatttgcac 360
 gtntatttct ntacgcttaa nacactagat ccaacaacga gtccctcnaa ggtactaata 420
 cctgngaccc tgnatcgat tcatgcaaga agcgggcaca cagagagtga gaggacgatg 480
 atgtgtactt tcccacagtn gagaaatagt actn 514

<210> 983
 <211> 369
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 983

gcatttggac acctattatg tatctcctat gctgtaccta catacgtatc agcagggcca 60
 ccatctcaat atttacgaga tcatattcat acaccattgg ggcatttcac caagcacttg 120
 gtgagcgcat gtttggacat gaattgcaag agaatgggag caatgtggca tgccccattg 180

cttcaaaata caacctatgc ctaagacctt ttcattcaga ttctcaattc aagataacaa 240
 ggcctaagc taaccataac tgcctcacia atataatgca tgttctcaca atttagggca 300
 ccaaaagatg aagaaaacac atcantggga agcatatata tcaaagatcg aatacttact 360
 tgttgaggt 369

<210> 984
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 984

agcttcgctg atttagtttt caccgacgaa atgatcgaag tgggtctaaa aagaggcaaa 60
 tctgatcatc atgctttgat aaatgcaaaa aaaattgggg caagtgaaga ggggtgagaat 120
 gaaggagaaa cccatgttgt gactgccatt cctatacagc caagtttccc accaacccaa 180
 caatgtcatt actcagccaa taacaaactt tctctttacc caccacccag ttatccacaa 240
 aggccatccc taaatcaacc acaaagcctg tctatcacac ttctaataac gaacaccacc 300
 tttagcacga accaaaacac caaccaaaaa ggaattttgc agcaaaaagc ctgtaggatt 360
 caccctaaat tccggtgtca tatgctaaac ttactctcaa atctactcaa taattcaat 419

<210> 985
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 985

nggatggcaa tagaattaac caattattag tttggccata ggaagttcga ttgccttatt 60
 ntatttcgat tntgatttca ttatgtttct ttaattntgt ttcttacgta aacaaagcaa 120
 ctgccaaatg catttccttg gaacaaattt atttgaatat gtctttgggt ttgttaaattc 180
 aattnttaac tnttagtaga cttacacaaa tatgttatgt tatccaatgg gcatatgtaa 240
 cgggtctaaa gattagacaa cgtatattct tcattaagaa aaaggaaaag gcgattataa 300
 ttntgactta agaagttggt ntgattctgt ttactgattc anaagttggc tgattgtttn 360
 ttagttntct actggatttt attatccttg aggacttggt gtgtcctcac atagtgtatt 420

ttc

423

<210> 986
<211> 311
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 986

tctgttggtc aatttcgagc gtctggatat attatgttcc atattcanac atccgagtga 60
aaagttatga ccattagaat ttctcgagag ctcccggtgt tcaatttcaa gagtctagat 120
gagttatgta cgcgaatcga acatctgtgt gaaaagttat gaccattcaa atatcttgag 180
tgcttccggt gtgcaatttc gagcatcttg atatattatg tcccacattt ggacattcgt 240
gtgaaaaggt atgaccattc gaatttctcg agagcttcca ttgtttaatt tcgagagtct 300
agatgagtta t 311

<210> 987
<211> 575
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 987

attgcacgca tctattangc goactatacg aataactcaag ctcttccgga gcccattgaat 60
cngcgtttcg ttcatgtgtc tccaccttcc gagttggagc tatgcgtagg gattgcttag 120
tgcaattctc cattctcaac cttntcggga gcccattgaa ttgcgttttc gttcatgtgt 180
cctccaccct cgagttcggga gctatgcgta gtgattgctt agtgcaattc tccattctca 240
aacttttttg gagcccatg aattatgttt tcgttcatgt gtcctccacc ttcgagtttg 300
gagctatgcg tagtgattga ttagncaat tctccattct caacctttta cggagcccat 360
gaattgcggt ttcggtcatt gtgtcctcac ctccgagttt ggagccatgc gtagagattg 420
cttagtgcaa ttcttcattc tcaacccttt ttcggagccc atgaattgcg ttnntcgtca 480
tgcgttctcc acctctcgag ttggagctat gcgtagtgat tgcttagtgc aattctccat 540
tctcacacct ttccagagcc catggattat gtttg 575

<210> 988

<211> 415
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 988

gtatatgaca tgtcccactt gtactttntt tttttatcta atttgcattc cacaaaatta 60
 gaatctctgg atcttgattc atccactgat ttacctttct catttaagtc aaggtagggt 120
 gatgtagcca taagaatgga cgcttctttg cattnttcca taccaaattt ttttattagt 180
 tctatgcagt atttattttg accgaggaag gttccatggt tcattttctt gacttggagt 240
 cctagaaaga aatttaattc tcccatcata gatgtctcaa attctttttt gcatacaaca 300
 tgaaaatccc ttgcataagg ttccattagt atagccaaat ataatatcat caacatatat 360
 ntgaacaatt aacaaatcat tgtttacttt cataatntaa caaagtttgt caact 415

<210> 989
 <211> 260
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 989

cgatgataaa gactccccaa gctatntatc ttctctctca gagaggctnt gtctcactct 60
 aagaagtgga tcaactcttat cttggatgga taggaatgaa agctcctaca cttatttata 120
 ctactccatc tncacaataa atgggtggaga ttacttgtct cataatgtga agattaattc 180
 tctataatgc ttcacacatt ctaagagttt ctacactctt ccatattctt tcataagggt 240
 ccagaaagtt ttacacatct 260

<210> 990
 <211> 181
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 990

tactttgtca ggtacatggt cacttgcaat ttcatctctt agctccttgt cccttgtaaa 60
 gatcttccaa gatactatta taacttcttt aggaatctct tctgaagcct atccttcaag 120
 ggtagcagcc ttcttttttg cttcttcttc tgctntcttc ttcatggtct tttatgctct 180

t

181

<210> 991
 <211> 585
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 991

agggtacaca gcacaaaagg acngctgcgt aangctacct atcattactc aagctcgaat 60
 gaggaagtgt agaacggtga aacttcctgc tnttattctt tgaccacaga gtggtacctg 120
 gagatatgtc gcgggtatag tcagtcagtg agaacctgtg atgtacctaa gcaggcgagc 180
 tcctggcagt caacagataa aaggaacaaa gatcaciaag caaggaggct tgtgtggttg 240
 ctggccagtt gtgaaacttg attgatatat gggatgtggc ctctggtaat cgattaccaa 300
 ggggtgggtaa tcgattacaa ggcttanaaa gtgaagacag gaagctaaga tggcctctgg 360
 taatcgatta ccaaggggtg taatcgatta tcangcttga aaatgggatt aggaagctaa 420
 gagggcttct ggtaatcgat taccaagggg tgtaatcgat taccangctt anaaatgaan 480
 gcagcatgtg gtggaggcct ctggtaatcg attaccaggc tgtgtaatcg attacacagg 540
 ggaacatgcc actggtaatc gttaccaggt atgtgtaatc gatan 585

<210> 992
 <211> 320
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 992

atcctctgag tcacctgcng ctgcagctta catggagcta cgtcattgac ggtttctcat 60
 attccttgct acgttaataa gcataacctt gtatgtctcc atcttgatgt agccttncat 120
 tgattcctca aacttgacga ctccccata tttagtcttg caacttgctt tcaaactgca 180
 acatcaatga tcattctctac atcattaaca gtagagtata aattgccttc catatcaaca 240
 cgggcacatg tgtagaaaac ctttaccac tcaaggtaga agattnttat cttctacacc 300
 aatcttaaca aaccatatgc 320

<210> 993
 <211> 126
 <212> DNA
 <213> Glycine max

<400> 993

tatatcatcc agttccagtc atggtatata gtataaaaat ttaaacaatca acacaacatg 60
 caatgaagcc tagcttccaa agacaacaag gttagggttc aacaagtgga aagaccccc 120
 cccct 126

<210> 994
 <211> 248
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 994

attcccttag caatccccca aattaagaac ttatcataac ttgaaaccct tatactctct 60
 tagaaccta aaacaagatc aaggttatca aaattaggct caggggttta ttcaaacaaa 120
 tcattattac ttttggtca ataggggtgc aagggataaa ttcatcacag gttggctntt 180
 tggctgagtg gctaanataa aaagaaacna tggcttgatc atatccacct tatgcaaata 240
 atcaaata 248

<210> 995
 <211> 305
 <212> DNA
 <213> Glycine max

<400> 995

tatagatact cagcctcatt ggagcttgag gcctaggatc ttcttatcaa tggattctct 60
 tgcttcttgg aagatgaatg gaagcgaat ggagaaagg agagagagag gagacgccac 120
 ttcaaagaga agatgagtct agaagaagct caccaccata ggaggccatg gataagagct 180
 tggaggaaga aggagatgaa tgaagggaga gggagagaag agcacgaaca tttgtgctct 240
 acatgagctt tgagatctga agtttaatat tcaaatgatc aaagttgaaa aaaatgcaca 300
 cacat 305

<210> 996

<211> 362
 <212> DNA
 <213> Glycine max

<400> 996

gcttggtggc cgcgattgac aaaggggtgca tatatacgac gttagtctct gcatgctatc 60
 atgcgttgac tgtagcgat agcaaaagaa tgttataact aataaccact tgggtatttc 120
 tgccggcccc ctaacttcac gacttagtac cgacagagtt tgtaagcgtg gaagacgacg 180
 taaatctccg catgtgaacg agcttggttg ccgcgattga caaaggggtgc agaagacgac 240
 atttgttttt tcatggatc atgcattgag tcttagagat agcaaaagaa tgtttatagg 300
 gataaccact tgggtatttc cgccgacccc caacatcacg agtttgtatt ggagagggtt 360
 tt 362

<210> 997
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 997

nttaggacct tatgtttagt tnnttggtt ctaaattctt tgacttgtaa acaaaaagtt 60
 tctttgtaat atttcaatgc ttaagtgaag tggtcagatt atgatgttta caattacttc 120
 aacaagtcct tcgataataa attgttcttt ctttttgcac aagcataatc atgcattcatt 180
 ctgcattcat agtttccgca tcaagtctca cactgtgttc accacttcaa aaggataatc 240
 agccgcccgc cgaagaaagt ggcccgcga attctccgca naccaactcg cattttcaga 300
 aatggatcta attgagcaag aaaatcagag tctcaaggag gaggttgcca cnttacgaga 360
 aggaatggat aggttgacga ccatgatgaa tgcactcctg tccgcccgaga attctc 416

<210> 998
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 998

agcttgaggc acttgcttt taacctagtg tctccaaagt ggccttacc aagtatcttg 60

ttttccattg atgtgccatc attttcttct attttctaaa ccctttttgc accattttta 120
 ttattgattg gtcttaattg tcaattaatt aggcagtttt attatttggg cccattcagc 180
 caatttgatg tttttaatct aatttcagga attaataag aattgggctt gaatctagca 240
 ttgggcttga atctagaatt gggcttggac ttgaagaggg caaactaatt tattctataa 300
 aattagatct tatcttatct agatattatt tagatttgat ctcatctaga tatcatttca 360
 attagatctt atcttatctt atcttatcta gatntgattt gattntactt atgggcttgg 420
 atttaaaaca tttt 435

<210> 999
 <211> 243
 <212> DNA
 <213> Glycine max
 <400> 999

tgacactact tatcttacc tacttctacc accaaaatta agtataacct atagaatttt 60
 actctgaat taattaatta aacgaatgtg tatagaactt tctattttct tttcataagt 120
 aaacattcct cgcttagacg ctctgctatc ttcatagcgc tccaatcata ttaatagtta 180
 ttccacccca ttctgtgata tacaacctga aaagctctga atatgcttga tacggaatta 240
 gtt 243

<210> 1000
 <211> 257
 <212> DNA
 <213> Glycine max
 <400> 1000

taatttatct caccctcatt tgtcacaaga tagtgacatg gagttgatgg tcaatatttg 60
 tcacaacaaa gtatgtttat ctcaacctaa tttgttgag cactccattt ctatatatta 120
 caattattca tgttcggcat tagcatgtac gtccttgcaa ctattgttcc acccatagca 180
 aggaataagc taaccataac atgagcccaa caaaggaaga atgctgatat agatgatgca 240
 gtataaagaa aactgaa 257

<210> 1001
 <211> 522
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1001

ntanatatnt cagatgaagt cattcaatta ttgttacttc atatgtagca gctgggagga 60
gatttatatg tttgtcaa atgtgttgaca atgtagaaac attgttaggc atgacaaccg 120
gatcgggttc tgcttatcct atctcagtc ccgattcctc atttcttct ctaccctgt 180
ccccgaaatt caatgggagt gcatatztat gtccatccca gtctccagtg gggttgagtt 240
tttcccgctc cgtcctgccc cggacatatt tataaaattn tattaataaaa tctaattntt 300
cataaaatga agaataataga ttttaataaaa aatcacaata ttgtacatga caacatanaa 360
tccaattcaa cattagcata naattcaata taataatttc atggttta atgtgttatata 420
tatatatata tatataatga tatntttgta caataattat tagcgtggag gaattggagg 480
cgggtattaa taatctcatc cctgaccccg aacctgattt tg 522

<210> 1002

<211> 267

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1002

ctcgtgcan aattcatttc ttgggtgttg ctcttggtt gtgctaaagg tgggtgttcgt 60
cattggaagt gcggtacaca gactttgttg ctgacttaag gattgccttt gtggataact 120
gggcgggtgg taaggagaac gtttgttatt ggctgaatca tgacatcggt cgggttggtgg 180
gaaacttggc tgtctatgaa tggcagacac agcatgggct tcatcttcat cctcaccctc 240
ttcatttgcc ccagttttct cattcgt 267

<210> 1003

<211> 360

<212> DNA

<213> Glycine max

<400> 1003

tattccgagg acagttcatt atcatgcaca gcctgcaaga gttggctcac aatacgccaa 60
tcatatctat ggagcatttt ctgagccag tagcctcgcc tgaagctcaa cttccattgg 120

tgaaacaaaa cgaggttgct ccgcctgagc tcacacctga gtaggtcaat tcagagccag 180
 ctaaccaca atctccagtg gcgaatccac cttcttcgct tgagcttgaa gcaagtcgcc 240
 catctctcc tctgaatgtc atttctgacg catcattaga tgaagcattt gtccttctg 300
 atttaccagc tgcagataca gctgaccacc ttgtttcccc aatcggagga catgctgac 360

<210> 1004
 <211> 237
 <212> DNA
 <213> Glycine max

<400> 1004

agcttgcttg agaagcttct atgtaagctg gatctttgag cttcaataaa ttccttcaat 60
 tgtgattttc agccatggag ttgcagtgga agataaagga aaagagatga gaggagacgc 120
 catccactag agaataagac atggaaagag aagcttcacc accaagagag tgtcttggat 180
 aagaagctta gagaggaagc ttcaatagag gaagagaatg agagagaggg agggggg 237

<210> 1005
 <211> 243
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1005

cttganatcg aanactaact ggttgaagat ngacgaacaa tgaatatcga tataagaatg 60
 gtgaagaaca ctagtataat tcatcacgaa aacgtcacga aagcatctcg gcttggatta 120
 ttttcttctt tcttcttctc ctactaatt gtaagtgaat tttgagtgcc aaaggtggtg 180
 aacccttttt cctcagcccc ccatgccatt ttattgaaaa aattgagggg gggggggggg 240
 ctc 243

<210> 1006
 <211> 315
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1006

gcttctcca caagcaacag ccttctggag gaatcttctg gaaggcccaa gtgggcctgg 60

ttgctatttg caccceccatt tttactaaat acacccccctt ctattttttt ggtgattctt 120
 tttccgtaat gttacgaaac tttacgaatt tcgtaacgat acttattttt tcttccgcaa 180
 ggttacgaac ccttacgaat tatgtattta ctctntttta gctttcgaag aagttacgga 240
 aacttaccga ttgcgcctaaa acacctcttt tcgacttccg tcacattatg gaatttcacg 300
 gatcgcgcaa gcctg 315

<210> 1007
 <211> 446
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1007

tattatggtc taagctgggt acacgaacat ntattcccat catatataat aaataaaaac 60
 aaaaattgag ctccaccaa aacaatagtt tgaaaatcaa cttcactaat gttggagaag 120
 tcagagaaag ttgctagaca aaaaatatct ttgtcatata gctggaatga tcacccgtga 180
 gagaaaattc atggcaagca tagcaagggt cattcttctt gaaaccacaa ttggaagctt 240
 caaactaata atcttggaga ccatattatt taagcttcaa attaatgcat cttgaactta 300
 gtcacgacta gtacactaga gacacgataa agtcaccaga naacacgcaa aagtacttaa 360
 taaanactta taagttaatg gttagattaa taacatttag tttacatgg ttttaggttg 420
 tcaaattgggt ccgtcaaaaa agtttc 446

<210> 1008
 <211> 497
 <212> DNA
 <213> Glycine max
 <400> 1008

cgcatgatac atctgacccg cgatctctga gtcaacttgc agctgcgcag cctggtggcc 60
 catgaaggat ggcttgccgt tatattgcat gaaaaagccc ttcgattata tggatatatg 120
 tgaatgggta gcataaaatg gcttgcgaaa tgggtgaataa aatggcttgg caaatatgaa 180
 tatatatgct ctggaaatgg cttggattat atgaatatat attgtatgaa gtggcttacc 240
 aaggggtgga tggatagccg aaaagtgggt ttcaaaatat gtggatttgt gaagaggag 300
 caaaagaagc cttccaaaaa aatgtgtgat atatatagga tgtaacgtga aagggttgca 360

aaaaatatga catggatgtg tgtcgaaagt gctttcacaa attttatgtg tgcaatgata 420
 tgtgtataaa atacatggcc caaatgtgat ttataagtgc tgtgacactc gccccatgag 480
 tgtgtttgct cttgttg 497

<210> 1009
 <211> 441
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1009

tattaagaag cttcctccag aagcttcttc atggcttctn tgagaagctn tctcaacaag 60
 cttctttgag aagctagatc cttatctatc cacaccctc tattaactaa attaacttcc 120
 ttaaaaaataa ttacggatga aaataatgca acaataatc aaacatcaaa cataattact 180
 aataatatat atatcagggg gttacacatg gtatacttga gaccgtatag taagcataaa 240
 attgagtata ccaagaacaa tgccttttta ttgactacaa ccaaagctat aagggtcgcc 300
 aatgataggc actaagttgt aagatcaata tttctatata tgttgaattt caagagttgt 360
 agttcctttc taaactanga acaaaanana aaggataaaa aacatgccac ccctctaaaa 420
 tatcacacaa ctntntttaa a 441

<210> 1010
 <211> 444
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1010

agcttctagc caaatattag tctctcaaag agtcgtcttt tcatggagga ttatctgttt 60
 ctagagtctc atcaattcga ggtgtccttg gttttatgga gactcatttc tatttaacta 120
 tcttgagtg ccaatctttc ctggaaaatc gagcaaaata tatctccaaa gtgtgttttg 180
 atgagaaaat tttaaattct gagaaatttt aaattctaag aatttcaaatt acttcaattg 240
 aaattctttt atttttaaaa ttgtgttttg ataaaaaaa ataaaaattg tgaggggtgaa 300
 agaaaatgaa tgcaaaggga agagaagata tgattggtgt gtttttaaaag agaagaatat 360
 tgacacggca tggagagtca cacganaact gggacacgac gacatacacc accatacccg 420

accacaacat tcagtcaatg acac

444

<210> 1011
<211> 470
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1011

tactcaagct tcaacaacga gggtcagtga atgattacct cactgagtct gaacgttttag 60
cgaatcggat tgttggtctg tctccacagg tgctcctaag ctgttttatt tcgggccttt 120
accagacct ccgtcgtgaa gtccgggctc tgcaacctat gtccatatca caagtcgtgg 180
cgéttgccaa gttgtaggaa gaaaagattc aggaccgcca tcgccatttc cgcacatcct 240
ataccccttc tgggtccgcca ctgtcaccgc caccacccac cgcggttcct tccatcgttc 300
tcaccccggt acgcccttca gttaagcgcc tttcagcaga agaacttggt gtctgtcgtg 360
acaagggggt atgttatcat tgtgacgaga agtggattct cgacaécggt gccgtcctcg 420
cctccactta cttattgcan acgatgatga tgatgactgc acaaatccat 470

<210> 1012
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1012

ttggcttatt ccctagtgga tgggtgcctcc cctctcctct tctcctttgc cttgcgctgc 60
atctccatgg tgtaaaatca ccattgaagg acctcattga agtcaaaga tccagcctcc 120
atagaagctc cacaaccaag cttccatcag gacgaagttt ggattgattc aatctaacta 180
gggattgagg tttagtaatt taagctatag catagaacac aaaagcatga tngattagag 240
aaacatcttt atatacatca gttgggttgg tagaaagact caacatcttt acctactggc 300
tgcaatctta cttactttgc attttactgg ttttagccta gatntagtnt aattctattc 360
taaactatcc attatcaatg gttctctcac aatgacttat tctgaattaa ccctatc 417

<210> 1013
<211> 391

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1013

tctcaaggga agtttcttaa gaaagcttct caaggaagct acctagtcta taaatagaag 60
 catgtgtaac acttggtgta actntgatga atgagagtct tgtgagacac aactcanagt 120
 tcaacttctc tccctttgtc ttccttcaat ttcgtgctcc cccctctcta tttctctccc 180
 tctttctttt cctccattga agcatcctct ccaagcttct tatccaaggc tcattcttgg 240
 ggtgaagctc cttcttccat ggcttatctc ctagtggatg gcgccgtctc ttacctcttc 300
 tcctttgtct tccgcttcat ctccatgggg gaaaatcacc attaaaggac ctcatgaag 360
 ctcatagatc cagcctccat agaagctcca c 391

<210> 1014
 <211> 332
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1014

ngaccaatch cgaccaacc caggcatagt cggtcagtga gaactctgtg atgtacctaa 60
 acaggcgagc tcttggcagt caacagatca aaggaacaaa gaccacaaag caaggaggct 120
 tgtgggtggc gccagctgt gaaacttgat tgatatgtga gatatggctc ctggtaatcg 180
 attaccaagg gtgggttatc gattacaagg ttaataatg aaggaggcta acatggcttc 240
 tggtaatcga ttaccacggg gtgtaatcga ttaccaggct cgaaaacgag gtcatagaag 300
 catgagggct tctggtaatc gattaccagg ct 332

<210> 1015
 <211> 348
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1015

gcttctatgg agctggatct ttgagcttaa taagggcctt caatgggtgat tntcagccat 60
 ggagttgcag cggaagataa aggagaaaag gtgagaggag gcgccatcca ctagagaata 120

agccatggaa ggagaagctt caccaccaag agagtgcctt agataagaag cttagagagg 180
aagcttcaat ggaggaagag aatgagagag ggagagagag agaatggtgt ggaaattgaa 240
ggagaatagg gagataagtt gaactttaaa gtgtgtctca caagtttctc attcatcaaa 300
agtatgacaa gtgttacaca tgtttctatt tatggcctag cacatggg 348

<210> 1016
<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1016

cgaagaagtt ntttctttta catgccaac tctctcgagt gacattngca ttgattggtg 60
tattttatgt tgcattcttag tctctatcat atcctatgtg catcatgcat catcatgtgt 120
gagtaaggag aaaatttcta atgttataaa atttcttcag aaggcaaaac tttttggttt 180
aatccattac aaccttacag taatcaatta caciaagttg ttttaagcttg catagctatg 240
tcttgatcg atttaattaa ttacagcctt atcctaateg attacaccaa ttgttttaag 300
acaatggttt atttatntaa tagtctatgc tttaatcaat taccatgtga tataaatcaa 360
tacttctctt tctat 375

<210> 1017
<211> 400
<212> DNA
<213> Glycine max

<400> 1017

agctataacc tcacgtccc tcacagtctt tattattggg agccaatcca atccttgtgt 60
tcggactctc agccacttat gatagccgcc gatgatccca ttactgcttc ccctaagctc 120
tctgtccttt cttcacgccg catcccatgc cttgcgaact ccttgagta cctcgcgtt 180
gtggtcacta aaaccccggtg cgatgaaagg cgtgatgctt tcgtctaata ggcctcctct 240
catggggtag ccaagctgtc ttatggtgag aacgggatta taattaatac aacccttgt 300
tcccatcaag ggaacatttg gacatccttc gcatgaagat agaatcctga ttcttccttc 360
cttctagcga gggaaccaat taacagacgc ccccccattgc 400

<210> 1018
 <211> 267
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1018

tattacaagc cttaagtgga aaaccatgat ttcacnctac ccttaaggaa ttntggagct 60
 cttgaaaatg tttgggaata agtgggagag ggggtatgtt tcattgggtg atattgtttt 120
 cgtggccatg cttgatgatg attttggcca tgcttgatgt atatacatat aatgcctata 180
 tgggtgcttta tattttaaat gctttgcaat gctactggtc acgttcaata aaaaattaaa 240
 tagaagaaga atgatgttga ataaatg 267

<210> 1019
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1019

gcttgcgagt ctcctttggc atttccttga catatgttct ccttatgtct aaggtctcaa 60
 ggttatgaag tttgccaata aatttcagaa gctgcgttgg catcactgaa tatcgtaagt 120
 ttaaatactt gaagtgtgct agatttcccc aattttcagg aacagaactc aatggactat 180
 cttgaaaatc aagtaccttc aatagcctgt actttgtagg gattttttgc acaaagttgt 240
 tcattaatgc tgattcttta tctgcaaaaa caaacagtga tcgggtgtgt gaattntccg 300
 tactcccat taaaaatcat tggagaacgg tgctattgat aagcgttgaa tcatcccact 360
 tggcattggc tcattcttct tactaatat 389

<210> 1020
 <211> 291
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1020

cacagacaca cttagtgggt gacattaact attagtagtg gaggataata caaccagttt 60
 aatgcgtggg tggtttgacg ttggagaatt gatntgagt ctaaaattaa tattagatat 120

atttgtaa atctgggttt atgttggaagaa agaattcgaa attaattcta ggtccataat 180
 tgattttgga ttgaaacaat attgagtagt atctgcccta gattcaaaaaa tttgtattga 240
 attttatttc taacttgatt ttataattaa acattcagac ataaatcata t 291

<210> 1021
 <211> 383
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1021

agctaggtn tgggcaatag caccacacct gacgtcccca aggtctcctg acccccgca 60
 catatctcca ggtaccactc tgtggtcaac gaataaaagc aggaagttca cccttctaca 120
 ctctctcacc tcaagcttgt aggattatgg ggtaccacac acatgtggta ctaggtggcg 180
 gtcgggcaat ggtgcacaac aagttttcca catccacaat gcgcgcataa acccaccatc 240
 ccctgttgcc cacctccaac tgagctcagc tactcccacg tagcccatat cctcgtttct 300
 ctcaacaccg ggtcccccac aatcctccca agcttccaca acatccaagc aaaacaacat 360
 tcanatagca caagctatca cag 383

<210> 1022
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1022

ntatcanatg gatgtaaaga gttcattctt atatggctnt attcaagagg aagtatatgt 60
 agatcaacct cctagatttg agaattcaga caagcctaatt catgttttta aattaaaaaa 120
 aaggctttat atggcttaaa gcaagcccct agagcttggc atgagcgtct gagtaagttc 180
 cttttagaaa aggattttct tagaggcaag gtagatacta cccttttcat aaatagaaaa 240
 tcacatgaca tintactggc tcaaatttat gttgatgata ttcatttttag atctactaat 300
 gaattattat gcaaggaatt ctctcatgac atgcaaagtg agtttgaatt gtcaatgatg 360
 ggagaactct aattgtttct tggatacaaa ttaaac 396

<210> 1023

<211> 325
 <212> DNA
 <213> Glycine max

<400> 1023

agtgtttctt ttgcaagaag aagggacaca tgaaaaagaa ttgccccggg ttccacaaat 60
 ggcttgagaa gaaaggtgaa tcaatctcat tagtatgtta tgaatcta atgggtagtg 120
 gtaatattaa cacctggtgg attgattctg gatctactat tcatattgca aattctttac 180
 agggtagtga aaacctaagg aaaccagtgg gaagtgaaga aagcatttta tcaggcaata 240
 agctaggctc acatgtggag gccattggaa cttgcatttt gactttaagt agtggcttta 300
 ttttaaaatt agaaaggact tttta 325

<210> 1024
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1024

taggagtntt ccaaccatca agttgacctt gcttgaagac ctccatcctt catggtatac 60
 ttgagagttt tccaaaaata tcagacaaga tggaatatgt aagggaactt catttgcagt 120
 aactgccat aagtatatct gtctatttgt ggagttgttc agttaccaag tagcactgtc 180
 atgttaccag aactgactga tattatagct nttggatgga aagggtagca atggctaaat 240
 cacgaagatg gtgaagaaaa agcgggttca atagtatctt caaaggtaga acggctntgt 300
 gcctaagat gcaaccattt attaattttt canaacggtt catgcacgtt gttcatgtga 360
 aagatttaga ctgattgata t 381

<210> 1025
 <211> 289
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1025

gcttatcttt ggttntacaa ccaaagtcca tgtgaacctt gagtaatcat ctactataac 60
 taagccatag taattttccac cttaaactcag ttctagaggg accaaataaa tcaatgtgaa 120

aaagttcaag gggttttgaa gtagaaacaa catttttact ttgaaaggag tttttaactt 180
gctttccttt nttacaagct tcacacaatt tatttttctc aaacttaagt tntggaagac 240
caattactaa gtctttccta actagatgat taagatgatg catatttat 289

<210> 1026
<211> 410
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 1026

ctcaagctta tgattggatn gataaatgtg aacgtgagag acctctgagt gatgcagaga 60
gtagctgacg aagagatatc gataggtgag gggagtttat ttttggttta tagctcttga 120
taccatactt ggngttagta aacccaacta tggggatgta tgattctccc tatgcatgct 180
agttttcaag aaaactgtgt ttntgactaa tgggatgca tatatttctt attgatgaat 240
gaaattgtga atgatattgt tgttttatga aacttgtgtt gtctgaagac ctgtgaaatg 300
tgaatcctan gcatgaaatt atatgtatat atgtggaatg cgattactga tgatgttaat 360
attgatgata atattgatat gaaatgatgt tgatattgag atgagatgat 410

<210> 1027
<211> 360
<212> DNA
<213> Glycine max
<400> 1027

aacaaaactt gtgctattca tctttttcat tctcttctcc ctttgccaaa aagaatttgc 60
caaggactaa ccacctgaat tctttttgtg tctctcttct cccttttcca aaagaacaaa 120
ggactaaccg cctgaattct tttgtgtctc ctttctccct tgtcaaagaa ttcaaaacga 180
cacagtctga gaattctttt gattcttccc tttcccataa acaaaagatt tcaaaggact 240
aaccgcatga gatattctttt gtttccctt cacaagttt caaaggacta accgcctgag 300
aactttgtct taacacattg gagggtagat cccttgtgga caagtagagg acatctactt 360

<210> 1028
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1028

tctatggagg ctggatcttt gagcttcaat gatgttnttc aatggtgatt ntccaccata 60
gagttgcagc ggaagataaa ggagaagagg tgagaggaga cgccatccac tatggaataa 120
gcatggaag gagaagcttc accaccaaga caatgtctta gataagaagc ttagatagga 180
agtttcaatg gaggaagaga atgagagaga gaaagtggca tggaaaattg aaggaagaaa 240
gggagagaag ttttaactntg aagtgtgtct .cacaagactc tcattcatca aagtgtgac 300
aagtgttaca catgtttcta tntatagcct angtcactaa catttcacgt gaatctaaga 360
ggaatattcc aagaatatcc canatgcac ttaacatatt ccaagaata 409

<210> 1029
<211> 521
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1029

ctttcggtcc gtctatngcg ngcccgcgat ccttagagnc gcctgctgca tgcaagcttg 60
angaganaag gngaatatc tttttcttct tggatgaccc aangtggcaa cgtgcttcat 120
ttagttaaat atcgtaaca ggctcattca ttgtggacgg taaccacgagc gggaattcta 180
agacaatgat gactcacacc ttcaattcgt tggaagctct tctaacctaa atttgacata 240
ctacactgga agagcactta ttcatttgca ccganggggtg gcatatgctg ccatgatgaa 300
tcgaacatct agggaaccat gcccaactca cagaatttaa tatgcggcac actactaagc 360
ccaacgtgaa ttgcacagga aatcatggtt gcgcgcttta gaattgactt catcacaagg 420
gtagatacga taagacatgt actgtgtttg atacacctca agtccaatt gatcggcgag 480
tcatttagga gatgatcgtg aatgcagaca caacctcacc t 521

<210> 1030
<211> 87
<212> DNA
<213> Glycine max

<400> 1030

accttcaggc gactttctct aagcgccgca ccggaatctt caagaacgca agtgagcttg 60

ccaccctctg cgacgtggac cttgctg

87

<210> 1031
<211> 460
<212> DNA
<213> Glycine max

<400> 1031

aagcacctga gctgcagcta tgctgctata ttacaataga ccttctttac ctcagcagca 60
aatcaacca caacagcaca attatgacct cttcagcaac agatacaacc ctggatggag 120
gaatcacctt aatctcagat ggtctagccc tcagcaacaa caacagtagc ctgctccttc 180
cttccaaaat gttgctagcc caagcaaacc atacattcct ccaccaatcc aacaacagca 240
acagccccag aaacagccaa cagttgagac cctccacaa ccttccctca gaagaacttg 300
tgaggcaaat gactatgcag aacatgcagt gtcaacaaga gaccagagcc ttcattcaga 360
gcttaaccaa tcagatggga caattggcta cacaattgaa tcaacaacag tgccaaaatt 420
ctgacaagct gccttcttaa gctgtccaaa atccccaaaa 460

<210> 1032
<211> 419
<212> DNA
<213> Glycine max

<400> 1032

acaggcctat atgacatctc ggactatgat taactccctc taacctccaa gtaccagcaa 60
atccagaggt aactctacaa actctcaaag catcactctt tatcactcat agcactacat 120
tctcactatc taaccctagg ttaactctac cctacatctc tagcagattt ccataagcaa 180
ttgcaaaaca cagacatcac atgcatcatc atagacactt ctaaaccaga acgggaaagc 240
gtgactcaca cctgacatga cgaagttaac atgtttcagt gagattctga cagataccat 300
ccagaacata aacctagtgt actacccatg atatttccaa aacaatccca cagaatatgt 360
gagaagatgc taccaacctg aaattgaagt cccactatag ggcgcttacg actccgaaa 419

<210> 1033
<211> 448
<212> DNA
<213> Glycine max

<400> 1033

agctcgaact tgaaataggg tcaggattga tcttatcggt cctcatggct cttgaagaaa 60
taaagagaat gaaaagtaca aataaatatt attttatttg taaggattaa aaatacattt 120
aaacctaataa attaacacgg attatgacta ttttttataa aattatattg ttgttttttt 180
tttaatttta gataacttat gattgcaata ttggttaatg aatataaact tcaccaaag 240
ttaatagttg attttatata attaaaacca aaagttaata ttttataata tatatatata 300
tatatatata tatatatata tatttcattt cagtaagaaa aaatcatatt atatataaaa 360
aaagctctat ataaatttgc atagaggggc tcaactctca agcaccttaa gtcagcctac 420
tagggtcac acaggtaccc gaagataa 448

<210> 1034

<211> 356

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1034

cgccagttnt tacgtatact ttggaagtat atatattaac atcacgcact tatatgcgag 60
taagagcagc tcttctacgt ggtcattgaa ggaagattta agtgttggta ttttttgta 120
acttacataa tgttgctctg atgatattcc gtgaagaatg ttaacgactt ctcgttttag 180
ccatcctatt ggtcttttca ttcgccgtac atatatatga attatactta ttgcatgaga 240
atattcttta cttacttgag actattctaa tttgtgtgcc tttaccagaa tatcttcacg 300
ctacactgga atgacaatgg tggatgcctc tctatgagaa ataatgacca catgtg 356

<210> 1035

<211> 449

<212> DNA

<213> Glycine max

<400> 1035

agcttgtcat ggtatatata tgtttcctaa tagtctactc tgtgttatat aatacttagt 60
taaatatatt gtgtatacta aaagcaaatg cttaacatta tacgtctttc gtactcaagg 120
atataccaac attgaagggc ggactgtctt gatgtagcga ttttaacagc gatgacacta 180

tctttgttct atatattaac tgtcatggag atggagctgt ctttgtaaac aatctttgtc 240
 attatcagct gaaagatgaa catgttggtc gataggaaaa taatgaaata ccttatataa 300
 atgtattgta aagttttaag aataaactgc tcaaattgcc agcagtttgt cgtagaatag 360
 tagtgcaaat tcatgatgta aatgtattag aatacagaat aaacctatgg tgccgttatt 420
 aattgttatg agaacatctt gggctcttgc 449

<210> 1036
 <211> 82
 <212> DNA
 <213> Glycine max

<400> 1036

tagcacatgt tgttgtccaa tgaactcttc ttgacagagc atgtgttgaa caggaactct 60
 tagaatgatg tgtagaatga at 82

<210> 1037
 <211> 264
 <212> DNA
 <213> Glycine max

<400> 1037

gagcaacgca cagctcacat tctctgtttc aactcctaaa caatttttaa ttggtggctt 60
 ctggatttat gtcaatacat caaaatctta tggtatactt gtgtcatcat gtaatgcttc 120
 ctctactact gattcgataa aacagataaa aaaacactaa aaaatgaaac ctaatatcat 180
 caacgacata aagcataaat tctagtatta gtatcaccaa aagttttggc tgctggtttt 240
 gtgcccattc ctcacatttg atct 264

<210> 1038
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 1038

agcttctact tatgtggcag ggcgggcttc ctttctcttc ttgtctccaa cgcgaacttt 60
 gaccattggt cttccttccc gcgatgcttc ttttcatgtc tgccctgagtg ggcttatagc 120
 ctaaaccata cttccacaga ttaccttggg tatttatcag tctagttatg ccgccgttgt 180

tttttcttaa acccataaccg ggctcataac cgttcccaaa cataactcgg gccatcatta 240
 ccgctgcac ggacagacta tgctgcccac agagggagtc cacggaggaa atgctgacca 300
 cctcaaaaga ctggaaagta gtttctaacg atttcttctgc ggcttcaca taaggcatgg 360
 aggatgggca gcttaccaag atatcttctc cgctgacac gatgaccaag tgcccctcta 420
 ctacgaatt 429

<210> 1039
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 1039

agcttcgaag ggatgaaagg gatgtgttga gggatgatgag tatgatatta gaggataagt 60
 tgaaggcttg caaaggctcat aatagagttt gaccgagcag ttgagttata cagacgagaa 120
 catcttgaca atcattgatg ggtataaaga agagctaagc ctagctgcca gtcataaggta 180
 gagactagag gatgagcacg cgaaggtagt ggctctgcaa gcggaagggg aagcaagaga 240
 gagcgtgata taatcattgc acaggggaagc cgtgaaatgg atggatagat tcaactctcac 300
 tctgaatagg agtcaagaac ttccaaggct tttagccaga gccaaggaaa tggcggatgt 360
 gtaccagct ctcgaggaag ttcattgggt tctcgattat tgccaacaca tgttcgaata 420
 gatgtgcctc ataatta 437

<210> 1040
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1040

tcatgatgat gaaccaagca attttgatga tgccaaaagc ctttgtgatt gattcacgac 60
 ttcaagatca agcatcaaga atccaatcca agattcaaga ttcaagagaa gaaatcaaga 120
 agcaacaagt caagacttca cacatgataa gtattaaaag attttttcaa aaaccaaata 180
 gtatagtnt gttttacaaa agaattttct cacattgtct aagttaccaa agtgattact 240
 ctctggtaat cgattaccag ttatcagtaa tcgattacca gtgaccaact tggtttccaa 300
 aatgttttca aatggtttgc aacgttccaa aatgattttc aacagtgaat cgatacacta 360

tatattaatc gttacagtga atctgacgtt gaatcaatct attggaga

408

<210> 1041
<211> 423
<212> DNA
<213> Glycine max

<400> 1041

agcttctgaa gcatctacaa gatgtattaa ctgtgttagt tgtcagccat gattagaggt 60
tgcttcaata tactctatta gtttttgttt atctggctat tcagtcatta ttgatgctca 120
tttatcgtaa tatgtatggg tttgtctttc tcgtgattga tgatttgcca ataccattag 180
aaattctaac ttcgattgtt acgaaagact gatttaatgt gagcttcaaa attgtgctga 240
tatatagatg gataaacaca tgacgttgat acttatatga ctgtggtgct tcaatgtata 300
cacttggttt tatgtaggca acaacttcta gaatgtggag gctatgagct cgtgcacatc 360
atgaactcaa taatcactta tgtgataatg tatggctgga agtcagtaaa cggaatcttg 420
agc 423

<210> 1042
<211> 437
<212> DNA
<213> Glycine max

<400> 1042

tctcgccatt gacaatggcg gtacgcgtat ctgccagta cttctggcga catccatggt 60
aaaacagacc cctctgttaa atacttataa aagagacccc ttacgtaaa tagtttgtaa 120
aggtgaccct ctacagtaaa ttaccactt taaaataacg tttggacatt ggattttcat 180
ataagttatg gatgcttata taaatagtgt gttggaagca atgcttgata acccattttt 240
atgcatctaa gttaagttac aagaatatac ctattacttc cttggacgca tgtttagctt 300
gcgtagttca ataaactata tcaattcacc aaagttaa atctcttatt atcattagaa 360
ctatgaaatc ttacgggct tcacattatt catgtttttg gttccggcaa aatgttttga 420
ccaacttgcc atgtaag 437

<210> 1043
<211> 407

<212> DNA
<213> Glycine max

<400> 1043

taacttgagc atctctgact atgaatcatg caacataata gggaacaaat tcatagtaac 60
cctcgagtac aagaccgaga tgactataga gtagtatccc ctcatatttg atgtcccat 120
tagcaacaga cttagcatat gttttatttt catttgaaaa tgttgtagaca tgtgtcgac 180
taaatccaac gaataaacac aaaatacatg ttataacaag gattctgtga taaaattatg 240
tgcacctcag gacgtaattc tataacatgt tcttagttga gtacgaggct ttacaccttt 300
tgcttgacaa tggcaaagga gatgcacata tagagtaact agcgagctat ctaaataacc 360
tctcgtgaca ttagaccagc ggaaagaaac atgatgacca aactctg 407

<210> 1044
<211> 325
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1044

ttcggccgac actggcgtgt tcccatgcac tccggcgaga acacattgac ccacctcgat 60
cagataaaaa gacattaacc accggtcttg atcggaaaaa atgctggttg acgtcggcca 120
tgatagatga ccgatcgagg tctgaaaata aaagaatcac cggatgacgc cgatcgagca 180
tatacctaatt gacatcatcc aaatattatc cagggatttg atagaaaaaa caatagctga 240
taccagtcgt tatgtagtcc cgactgacat ttgtcagccg acattgcaca gtattntttt 300
caaacgctgg ccgataatat atctt 325

<210> 1045
<211> 344
<212> DNA
<213> Glycine max

<400> 1045

gctttacgga cctatcaaac tcagctagga ggattttgga gacccgctgt tgcgatatac 60
gaggatatgg gctacgtgag agtacgtgag cttaattgga ggtgggcaac acgagatggt 120
gggtttatgc gcgcattgtg gatgtggaaa acttgctgtg caccatcttc cgaccgcat 180

ctagtaccac atgtgattgg taccgcataa tcttacaatc ttgtgatgat gaattgttga 240
aagaggagac ttcttgcttt attgttgacc acatagtggg acctggagat ctgttgccga 300
ggtaggaga ccatggggac gtcattgtgg gtgctattgc ccaa 344

<210> 1046
<211> 420
<212> DNA
<213> Glycine max

<400> 1046

taatgacatt gattatgaca tcacacgact tgctatTTTT agtttcattt tttcccaaga 60
aatatcgtgt acctttcgta aaagaattct gttttcgtcc ttttgtaagg aaaaaaaaaa 120
aaagagattc tgattgaatt tgagtaaact attttctaaa ataattattat tatgagtgc 180
aacttttttc ttatcttaac actctgtttt gctgtatatt aagactctga ctcaaatca 240
tcagacttgt ctataaaata agtatcttct acttccatcc cagtaaaaat cccacatgaa 300
ggacttaaca aagctagatt actttgtgac tcttataaat ataactaaga tgattattac 360
gaacacatgc tatgggttta tcttcgaaaa ggaacacatg aaataactcg attttaattt 420

<210> 1047
<211> 376
<212> DNA
<213> Glycine max

<400> 1047

agttggaagc aaaacaaggg agcaagcttt gggaacactt tcttcaagaa ctaaaacaaa 60
gtcctttaac cttttccatt ttcattcctt ttactatcct catgtatttc tggattggat 120
tcttctcctt gcatcagtag ttctacaaaa tagaaggagc agaacacaag gaaattagat 180
tatttaggat agtcacatat ctcttatgtg ttttaatttaa gtagcttgaa ccattacgta 240
ctaactctga tcaactctata tgtctattgc ttgctatatg attcgctaac acttttgaca 300
aggaactgga tgagatgaag cacataacta ctggaatttg tcgcaagtta ttattacatc 360
attgtagttt atgttt 376

<210> 1048
<211> 448
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1048

agctgtgctt ctacactacc agcaacaata tggtatcaaa gagaanaact ctagatgagg 60
gttcactgtt atcaagcaag tcggagaccc agcatgacca caaattcacc tccactcctt 120
atgttcccat ggacccgggt atagggcccc ttttcaactc accgtgtgta caaatagtgt 180
tggtgtttat gtgcatcaaa tgaataaata tctatctcat gcttacattt caaaagcaca 240
ctaaaagcaa aaaagagtta tatacaagaa cgtaaaggaa ataaaaggaa accgacaaaa 300
gaggaagtca tgatattgca cgagattaga aggcctaact ctctaaaaac agtccccagt 360
ggagtcgcca aatgtcgcaa cctacccttc ggcgaggagg cgacgcggng ctcacgggtg 420
tgtcttccaa gggaggaagg ctcacgga 448

<210> 1049

<211> 447

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1049

tgtaggcctt gaatcttctt catcaatgga gtcctttgct tcttgaagat aaattggaag 60
cggaatggag aaggaggaaa ggtgattaga gatgccactt caaggagaag atgagtcaag 120
aacaagttca ccgcatatg aagatatgga tataagagct taaaggtacg agaagatgag 180
tgaggaggaga gggagagaaa gggcacgaca tttatgcctc agatgaggta tgaaatgtga 240
agtgtaatct ctcnatgat caaagttaaa aatatgcaca cacaaggcct ctatttatag 300
tttaagtgtc atacaaaatt ggaggaaaat ctgaatttct attcaaattt cacttgaatt 360
tgaatttggt gagccaaatt tggagccaaa atttcactaa ttaggattgc atcatccctt 420
ccnctctgaa aatgaattga cctcaaa 447

<210> 1050

<211> 448

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1050

agcttgtgca aatcaaatca ctctacgtc tcatctctag catgcatttt ctttctttac 60
 ccactcctca cgtgtggttt ttagggaaa aaacaccata actaaacgcg ccgcatggga 120
 tccctatcgc accagatcca aatctagaac gatgggtgat caagaggaga cacaggaaca 180
 gatgaaggcc gacatgtcgg ctctgaaaga acaaattggcc tccatgatgg aggcctatgtt 240
 aggtatgaag catatcatgg agaagaacgc ggccaccgcc gccgctgtca gttcggctgc 300
 cgaagcagac ccgactctct tagcaactac gcaccaacct ccctcaaaca tagtatgacg 360
 gngaagggac aactgnggc acgatggcag ccctcacctg tgatacaacc gagcggctta 420
 cccttatgga ttgccgccca actattca 448

<210> 1051
 <211> 399
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1051

ctgaggggaag aagccacaag aacacttata tgaaggtcgg atgtataaga agaacatgta 60
 ttgctctccc tcccttgaag aactcgtgca caacaatgga gaataaagggt tctaagtttg 120
 ttttttcttg gagaagcgag gacatataag gctttatgct tgcttcaaata gaaacttggt 180
 tacgcttaat gttgacaaga tcaaactgat gacatgaata atcatttgat agccataatg 240
 ctgccatata tgcatttctt gccttttgat tntttaacta gaaatgacta aagtcgactt 300
 aagcaaaaat ggtaaaaact ccttctgtaa aactgaaaac cttatctaata ctttagatag 360
 tgtgctacat ccttgatat gtgactcata ggaacttgc 399

<210> 1052
 <211> 448
 <212> DNA
 <213> Glycine max
 <400> 1052

agcttctccc tataacagct tcaaaattct atattcagca cactactgta atttcaattc 60
 actcatgtta ggtggcatcc cttaaattggg aatctatagc ctggccatgc ttaaattgctt 120
 ataattttct agatgttcca gcttaaattgt tttgactggt ctcagcatga gaatttactt 180

W

<400> 1053

<210>	1054
<211>	447
<212>	DNA
<213>	Glycine max

<400> 1054

tcattttgtc gcctaatacaa atactaacat aaatttccac tgatcgcttg aattgtaata 420
 tccgataatt tctgttaaaa tgaaatc 447

<210> 1055
 <211> 446
 <212> DNA
 <213> Glycine max

<400> 1055

gctctctaag tgaaatcagg tgcagccatc tccctaagag tcctctcaaa aggtggaggt 60
 tgagccatgt tctcagtatg aaaattagta gtcgaatgct caaattcaga atgttcagaa 120
 tcaccatcaa cataatactc agaatgctta aaatgctcaa aatgcacaga atgatcagga 180
 tgcacactat gcctaagtaa tccatgaaag gttctatcta tttcaggaag ggttctaaat 240
 cacctggatt gcccttagtc atgcattata tgcagcaaat catgtgtttc tcaaacaagc 300
 accagtggag ggtaaaaact acaactatag tcaaatgata tccaaatgag ctgaaatttt 360
 atgagtaaca ccctaaaatc atgaaaagat agaacaaaaa tttgcagact aaaattcact 420
 aactatgaaa actgactaaa gaaagt 446

<210> 1056
 <211> 204
 <212> DNA
 <213> Glycine max

<400> 1056

tgctgggtgga gcttcgatgt atgctgaatc tttgagcttc aatgaggtcc ttcaatggtg 60
 agtgttcacc atggacacgc cacggaaagt cataagataa gaggataggg gaggcacctt 120
 tcactatgga ataatccaag gaagaaggag cttcaccacc aataattgcc ttggataaaa 180
 aacttgaca agattctttc ctgg 204

<210> 1057
 <211> 369
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1057

agcttctagt cgtgcataga ccttctctng ggtctgacta tcaaacgttg catctgtgca 60

ttcatcgcat tctaatacag acgttgagcg cegtccaact gatggtactc gtgaccacca 120
ccacctgcta cagccataat ttaacaggaa aaaaaaatgt gcaataaaaa ctattaaggt 180
ttcaagacct cacaacactc tactcacgtc tgtagatgt gagtacactc gtgtttaacg 240
ctctcaatat gctatcgtga aatgtattcc ctcttgccctt ttaccactcg agtggactct 300
taagttcctg gatggaccaa attacacaca catggtaata tttaatcaga ggagagacta 360
tatgatgat 369

<210> 1058
<211> 441
<212> DNA
<213> Glycine max

<400> 1058

agcttgccctc aaagaggtcc aggattgata atgttgccga aggaactagt tccgctcccg 60
agtatgacag tcaccgcttt aggagcgctg tacatcagca gcgcttctaa gccatcaagg 120
gatggtcatt tctccgggag cgacgcgtcc agctcagga cgacgagtat actgatttcc 180
aggaggaaat aggtcgccgg cggtgggcat cactagttac ccccatggcc aaatttgatc 240
cagacatagt cctcaaattt tatgtcaatg cttggccaac agaggagggc gtgcgtgaca 300
tgaggctctg tgtgaggggt gagttgatcc tgtttaatgc agatgctatc ggccagctcc 360
tgggatatcc gttagtgttg gaagagggcc aggagtgtga gtatggccag aggaggaatc 420
ggtctgatgg gttcgatgag g 441

<210> 1059
<211> 407
<212> DNA
<213> Glycine max

<400> 1059

cgcatgataa atactgggac agtctcaaac cctgatgtat cagtttcaga tccgtggagc 60
caatgcgcag tgggacaagt agagtcgcta aaatcattgg tcagactcct acctatgtgt 120
gcctcgggag tcttgatgat ggcgccccaa ggctcattct ctaccctgca agcaactacc 180
ttggaccgaa agctatattg caatttcaag atgcctgcag ggctcctcaa tcttatcatg 240
atattgacct tatcaataga cattcccttg tatgaccgca taatggtacc tctactagcc 300

THE FIRST BOOK OF SAMUEL

gttattcgcg	catattttgc	tcggtgcgct	ccatcatacg	atccatgaca	cgccatgcat	60
cctatctgcg	gaaaaacaca	aatgcttag	cgtactaatc	accgtagctt	gttaacatga	120
acgtattaat	aaatctagta	ctgcgctcac	tcacctatga	ttccggccct	gagaagaaaa	180
tgaatctgga	aatgagaag	gcaacaacaa	cagcgcgtga	cgtaaactct	tatgataagg	240
ggagagaaat	gagattagac	gcttacgcta	tatagaacga	tgcattgccg	ttcttttagag	300
atgacgtgac	acactaggtg	acctcttttg	caaaactaaa	tttggggccc	ttgtactagg	360
tactatacct	tacaacgggt	tttcggtgta	atgttttcta	agattttacag	agagttatac	420
atattgttct						430

atcaattcat attggatgca ctccaacttg taatgatgcc ctattccttt cctcagagac	60
tgatgccatg acaccgtcac cctttctttc agaattcagt gaaaaccctt ctctcttggtg	120
acaactttcg cgccttataa cgacattcaa atgttctaaa aattaattgg agagtgaaga	180
acaaacctca ctacgtgata attgttcccc catccgggcc ttgtgcaaac attcatgtga	240
taagatTTTT aaagtgggaa tagtagatcg aggccaccta aatggaaatt gaaaaaagg	300
tgtcagggtac aattatcaca cactntttta caatgatata ttgcttagaa ttcaaaacat	360
tcctaattgta cacaacaccg	380

436

<211> 439
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 1062

 agctntgttt catagataca tatatacaac taatataaaa tgtaacaaaa atgatgaatg 60
 aagataaaaa aaaatattgg aatgaaatgg ctatgacaat gatgaagatt aacaaataac 120
 cacacgaaat attcaacaca attcatatta aggatcaggt tatgaatttc aagactattc 180
 tcaaataaac atgacatgat ataacacatc agtattgctt atattagttt actttaaatg 240
 tagccttatg gtgaagtaag taggtccttt gctgtaagat ggaaggatta actagaagac 300
 acatggcatc tgtagatag taatgacagc atgcactatg ttatatgcaa caaagatctg 360
 gtgaacccaa ctatactggc tggatggaca aaactcggag atttctatgg actcacagga 420
 tatcatcaag tgaccatga 439

<210> 1063
 <211> 410
 <212> DNA
 <213> Glycine max

 <400> 1063

 ctatattttc agtagatgaa tatgaatccg cggccacctc atgtactcct ctaaggacaa 60
 tagcatcatt tggtgcactg aattgttagg agttggaagc catcttctca atcaaactcc 120
 tagcctcagc acgggtcata tcaccaagag ctccccact agcagcatta atcatactcc 180
 tctccatggt gctaagtccc tcatagaaat attgaggaag gagttgctca gaaatctggc 240
 ggtgagggca gcttgcacac aatttcttga atctttacca gtactcatat gagctctctc 300
 cactaagatg cctaattgctt gaaatgtctt ttctgatggc agtggtccta catgcaagga 360
 ataatttctg caagaacact cttaacgtcg tccaagctga aaatggacct 410

<210> 1064
 <211> 432
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 1064

agctatgctg atttggctct cgccagtga atgttcgaag tggatctgan aagaggcaaa 60
 tttaatcctc ctgcttagac gaatgagaaa actgctggca ataaagagg tgaggatgag 120
 ggagaaaccc atgctgtgac tgccattcct atacggccaa gtttcccacc aaacccaaca 180
 atgtcattac tcagtcaata acaaaccacc tccttaccca ccaccagtt atccacaaag 240
 gccatcccta aatcaaccac aaagcctgtc taccgcactt ccaatgacga agaccacctt 300
 tagcacaac cataaaaaac accaaccaag aaatgaattt tgcagcgaaa agcctgtatg 360
 attcacccca tattccggtg tcatatgcta acttgctccc atatctactt gataacgcaa 420
 tggtagccat aa 432

<210> 1065
 <211> 422
 <212> DNA
 <213> Glycine max
 <400> 1065

tctatataat ctgaaccatt ctatcaataa acacacgtcg agttgtattc agaattattag 60
 agtttatctc ttattatctt agtgagagt attctcctaa attcttgagt gattcaagaa 120
 caccttggct gtatcaaagg actttcacia cctttgtgtg ttgccctcgc tggaaagagt 180
 gattctttct ttactttcat catcaccctt gttctttcaa atcacaattc cagaagatcc 240
 acctctgccc agagatatct cgtggccata acttccattt tacgcactca aattaagaga 300
 ttcttgagcc tatattgaat ttcaaaacga gacccttcac ctggttatgg aatcacctca 360
 tttggagccc tgtagcttca gtattgccat ttctatattt ctgtccagcc accacttaac 420
 ct 422

<210> 1066
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1066

agcttcataa atagactgaa tcaaggagaa aattatcgtc gaccccaana acataagtta 60
 tttaacacca cttgtcacgt tgttgactag ttaatataggt ttattatggt tgcataaag 120
 aacatgtttc taaatgtatt aaaaagcttg ccttggaaaa atcaagttat gagtatggac 180

tagagatgag atgcaaactg caatcaacat aggggtacaat aacaaggctt gttctagatt 240
 tttttttttt ggaagttgaa taaagtttaa tctagttgtc tttttacagg tatgcttttag 300
 gtttacttag ataagacatg aaacagaaaag tgaccactct tgattaacta gatattgagg 360
 cccttgtaaa aggtactaga ccttacaaaag tttttcgcat ttaattttct ctaaatacta 420
 tagatatttg ataca 435

<210> 1067
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1067

ntgatctagt gtaaaattaa ctttccctan aagataaaac attcacaggt ccagatgatt 60
 accgaatttg taagaacaac aactaagtca tcttgaaagt actcaaacag ataatagtgc 120
 actatagctt ccctcagaga cagaggccat gaaaccttca ccctttcttc caaaattcag 180
 tgaaaaatca gcattcaaaa gtgaaaactt ttggcatggg aaaggacatt aaaatgttaa 240
 aaaaattaat tgggtgaagga agaacaaacc tcaactagtga taattgttcc ccaatccggg 300
 ccttttgcaa acattcagct gataagattt tgaaagtggg aatagtagat tgaggccacc 360
 taaatggaaa ttgaaaaaag ggtgtcaggt acaattatca gacactnttt tacaatgata 420
 tattgctt 428

<210> 1068
 <211> 442
 <212> DNA
 <213> Glycine max

<400> 1068

agcatttaca atgattaaga tatactcttt caagtttttt ggccataaat tagtctggga 60
 tctcaatcaa gtctcgagac tcttgaaggt caatggtctt taaactcacg aggttctgta 120
 aaaaaataa aaatacatca cattgaccat aaatcattaa aataaaattc ttagtatata 180
 ttgaagctca tcatcctagg tgtggctctt gtgattgtga atgagtttca ttcgagtaag 240
 caaaagacta gttaccactt tgtcttacga ttctctaccc tacctttgca aatagaaaga 300

aaaatgtagt atgtatattc acaatcatac ctgaacccca tcccagagct ttttgagctt 360
gctacgaggc atggaaatct ctacaagtcg ttcagcgag aagttatacg gcaaagactc 420
aagacaacat tcatgccaat ga 442

<210> 1069
<211> 450
<212> DNA
<213> Glycine max

<400> 1069

gagctttatg gaggctggat ctttgagctt caatgaggtc cttcaatggt gatTTTccac 60
catggagatg cagtagaagg caaaggagaa gaggagagga gaggcacat ccactatgga 120
ataagccatg gaagaaggag catcaccacc aagaatgtgc catggataag aagcttgaag 180
atgatgcttt aatggaggaa aagaaagaga gaagggggga gcacgaaatt gaaggaataa 240
aagagggaga gaagtggaac tttgaagtat gtctcataag acgtccattc atcaaagtta 300
caacaagtgt tacacatgct tctatttata gactaggtag cttccttgag aagctttctt 360
gagaaaactt ccttgagaag cttctttgag aaaacttctt tgagaagcta gagcttaact 420
acacacacac ttctaataac taagctcacc 450

<210> 1070
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1070

agcttctcnn cctatttgc ataaataggg ggatattga agataaaaag ggTtcagccc 60
cttaggcact tctctctctc tcgaaattgc tgaggaaaat tatttccgtg aagaagaaaa 120
gggttcagcc ccttaggcac ttctctctct ctcgaaattg ctgaggaaaa ttatttccgt 180
gaagaaaatc caagcagagg cgctttcgta acgtttccgt gagtaattac gcgaagattc 240
tcgaccgttc ttcaagattc atcgttcggt cttcgttttc ttcagtcttc aacgggtaag 300
tacctcaaac cgagcttttc aattcattct atgtaccgt ggtggtccac atnttgtttc 360
atgtattnt attctcggtt tcatttgctt tttatacccc ctnttgacgt gcttaagcca 420
tttatntaag tcatttctcg cttaatct 448

<210> 1071
 <211> 107
 <212> DNA
 <213> Glycine max

<400> 1071

tgctgactgc aatcatcttc gggtagatctt acaaggctgg tagtagaaat cttgtaaatg 60
 gaagtcgagt caaccttgat gcagatgact ttatacacgc atgcttc 107

<210> 1072
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 1072

tggatctgac tgccttgcct tatgtgatat acataattgg gtataaagac gactagggcg 60
 cagtaactga cgtttgtttt tatatccaaa ttgtataacc tgtgataaat catttaaagc 120
 cattggctct ttattattca ttatatgac aattctttta ccacttctag attgtgagta 180
 tcaatgatta ttcattgat caaagcatat gccaaactca gatgatagta tatcaaatta 240
 ctatacttct gatcatgagg gcgagccctg gtgcatcggt aaagatgtgc ctcggtgact 300
 tgttggatcat gggttcaaata ccagaaacag cctcttttga tatgcatggg taatgctgcg 360
 tacaacatcc ctaccccata cctt 384

<210> 1073
 <211> 318
 <212> DNA
 <213> Glycine max

<400> 1073

agctcctgcc tcagttaata ctcatccgtg gctgtgtgat cagcttttag aagatggcca 60
 cctaggattc ttgtgtgcat tttccacacg caagaggggt aaccgaaaca catccagcat 120
 ctaagtcggg aatcgaagtt catggaataa tggccgacat tctcaaattg gtctatacta 180
 gattgccttg gatgagttga aactgtcggg gcattatctg aaaatgtgcg tgcctgttaa 240
 aggaccatat ggataaagga gctgaccacg ccatacttat acagatgtac ttgtgtctacc 300
 tactttttcc tgattacc 318

<210> 1074
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 1074

agcttgaggt ctggaagcag tgcttttact gtttctggat gctatctaca ataaaaagaa 60
 cccatcagtt tattagacca gaagttatta agattaaaac agaaaataaa aacgaaaatt 120
 ggcgatgtgc gcttagcgag atgcagctag cttagcacgc cttagtaaaa acaacacacc 180
 ggcttagcgc aatatgggtg cgcttagcca gtcattgaaa agaaattttc tctgcataat 240
 tggctttgcg agcagtgcta gcttagcctt atgcatgccg caacgaatag tgcttagccc 300
 atggggatgg cacttatccc gagcaacact tccaaaaatt tgactatgta atctgg 356

<210> 1075
 <211> 252
 <212> DNA
 <213> Glycine max

<400> 1075

tgctagctag ggtaaatctc aaagcttcat aagcatatcc ttgtcagagg actgtcttta 60
 gtcattcatat caggatgatt ctctatgtga agcttgccct aaagggaaac aagtgaaaag 120
 ccattgctat aaccaaaaaa taccgtttgc atttctacgc ccttaacgcc tatgtggccc 180
 aactataact acatccctct ctggacacat atatggtttg gtcattgagg actattacac 240
 cagatggaca tg 252

<210> 1076
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 1076

gttgcttcct ccagaaggca tcgccttctg gggaactacc tggaaggccc tagtgggcct 60
 ggtttctatt tgcacccctt attactaaa tacacccctt tacctttttt tgctgattct 120
 ttttccgtaa cgatacggaa ctttacgaat tacgtaacga tacttgtttt ctattcgtaa 180
 tgacacgaca ccttacggat tacgtaatca tcccttcttt atcttacgaa atgttatgat 240

actttacgga ttgcgcataa acactttctt ttgacttccg acatgtcacg aaacttcacg 300
gattgtgcaa cagtgcattc tttagacttc cagcatgtca cggaactgca cagattgcct 360
aacgatgtgt gctaactacc tacgagtggg catacgaggg tctcatccca ct 412

<210> 1077
<211> 382
<212> DNA
<213> Glycine max

<400> 1077

acacagacca ataccacaac tttccttact caaatacccc agtaacattg tcttcgttcc 60
aatttgttca ccgttggtac gactcgaaaa ttttactgga ggtccctagt acataagtct 120
acattttgac cggtgggtac tgctacaaaa cgtccataac ccaatatgta caaccctttc 180
cacaaccagc aatgcataag ctttttctgc acaagcacia aattatgctg cacatttcaa 240
cagcaaaatt ctgcataata gtgcagattt tcgaaatcac tcttgccttc ttccaatggt 300
gcccaaattg gacctacaa gtccctatct aagtataaat catacctaaa ccacagacaa 360
gcttcagacc aaagcaattc aa 382

<210> 1078
<211> 434
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 1078

agcttgtcca ctacttgaaa tgacttagtn taatttataa ataacatgcc attgcagata 60
agatatactt atattcagtt ctgtagatgt tgtttgctg gatctcccat tagaattaga 120
gttctaccct gataatccat cttagtcctt taatgcagac tataattttgt agattaccaa 180
aatgaaact ctgattctaa ttgaataaca acatcaacag ccaacaatac caaacaacc 240
ttatctaagt tttattcttg aaaatatcac ccgtgatcac aagttcacag ctatgatatt 300
gccataattg ataaactgac ctgggataag aaatggctgg atattatctc atgcgatggt 360
aatgaaccag acaagttatt attccttact ccaccaagct aagaacggcc cactagtttg 420
attttcaaca catg 434

<210> 1079
 <211> 440
 <212> DNA
 <213> Glycine max

<400> 1079

agcttctttg agaagctaga tccttatcta tccatacccc tctattaact aaattaattt 60
 ccttaaaaat aattacggat gaaaataacg caacaaataa tcaaacatca aacataatta 120
 ctaataatat atagatatat atatcagggt gttacatcag cacctgcaca acctaaggcg 180
 cccgccccca tccagaggga ggctcccaa gctcggctc caaccacgac tcgttctgtc 240
 ggcaatgcct actttggatc cggttccaat gccatgagga actttcccc gaagccaact 300
 ccagaattca cccactccc aatgacgtac aaggacctct ttccgtccct catcgccaac 360
 caaatggtcg taataactcc cggaagatc taccaacccc ctttcccaaa gtggtatgat 420
 cttaatgcaa cttgcatgta 440

<210> 1080
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1080

agctntgata ttatgataat tattgctaga agatctcatg ccatgatttg gaattcctat 60
 tgactccagt ggagtacaat ggggtggggca acattcatca atataacgtg gaacaagtgc 120
 acccagtcaa gggtatagag gactgaggag accatacgaa catgttgcct taggagattg 180
 aggagtactg agagcttcag aggcaattgg agaagacgtc tgagaaggag agtgagattc 240
 ttttaaggac gcatcttaga tagttcagta ctcttggtgt gataagtggc ctatttttagt 300
 cctagttttc ttcattgatt ttgatgtatt ctaagagagg tttctccaca tatatgtatt 360
 ttgttgaagc aaagatgtaa aaattgattc tgcttacttt catattatca tgggttgcgt 420
 tcgtattatt tc 432

<210> 1081
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 1081

taagctcctt caactgcaca atgctcttaa tatttgaaga gtgtccttgt ggaaccttca 60
cccgacgaag aactgacaa aaacttatct tctccttctt ggacaaagta tggcgggctg 120
ggggaagta aattatcttc ccacagacc ttggatgcaa atgtgattgt atacccatat 180
cagctaaatc ttgacaggta ttcaagccat ccttcatctt gccttgaatg ttcatgagcg 240
ttccaaccac actgatacaa acatttttct ccacatgcat aacatcaata caatgtctaa 300
cgtcaagatt acacctgttc ggaagatcaa agataatgga ccttttcttg catatgcaac 360
tctgactttt atccttcttt tgagtacttc caaatgcagt atntaagtga tgaacccgct 420
gatatacctg ctcacc 436

<210> 1082
<211> 456
<212> DNA
<213> Glycine max

<400> 1082
tctgagtcac ctgccgatg caagctgaac ccaaccgatg agttgtgaac ttttactgtg 60
agtgaacgac tagctgtgac taataatctt tgcataatt tgtgaatttt agaataaat 120
ttataaatga ggacttgatg aaggccatga ttgtgcatat acaagccttt tgaccaaaaa 180
gcttaccttg aattataatt gtatcatttg caccctttgt gagctgaatg attttgtcaa 240
taattgaacc ctaaacctga atgattatct ccagatacct tgtttagatt ctaggagagc 300
atatggttca aggcattacc ccaaatttag gggagtggaa ctaattggga tgcaaagaaa 360
gagataaagc atcagcacac aacaaataag ttgtgtgtta aaaaagaâaa aagacaaaga 420
aagcaatcga aggaaatgtg tgttgatgta ataagg 456

<210> 1083
<211> 432
<212> DNA
<213> Glycine max

<400> 1083
agcttatgag catgagggtt agccttttct tgactataaa aataacgttg tttagttccc 60

ttgcttactc ccataatacc aggagccttg tgcataatgc tttttataca taagctaattg 120
 agtttctggt gtaacaaaag tgtttgact acactatttg tcactacatt cgcggtacgg 180
 gctaaggctg attcatttat gcaggttgct attgggtcaag ctgctgtgca caggtgtaat 240
 gcaactgtca acttccttga tgaaacaaga cttcatatc ctgcaactgt aaataatggt 300
 gacttgaca agctatctgt tgatgtagct ggcaatttgc ttggcaccaa taatgttaat 360
 attgacaaga cacctatcat ggccgctgaa gactatgcat tctatcaaga ggtcacacct 420
 ggctacttca tc 432

<210> 1084
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 1084

agcttcggaa gatagtgatg aggtacattc cctataggca gagcttgaaa gagcctgcgt 60
 agtcgaagag aagttcaagt ccatagccat caaagtctga aaagagtatg atgaactaag 120
 ggatgtcaat atggccaccg atgaagcctt ggaatgagaa accaagaagg cccgaaagga 180
 agaacacgac caaagcaaag ttttgagggg ctttataggg cagcaatagt gagctcaaac 240
 tccgaagagg tgaaaagaat catcacgggt caaaggcatg atctggaagg acgagctaaa 300
 agcttgccctt aggtcgaaaa gaaatttgtc ccaacagtta aagtgagact gaagggaata 360
 tgtggggccat catcgatgag tgcaaagaga agctaaatct agcggcaact cacgagcaaa 420
 ggctatagga tga 433

<210> 1085
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1085

ntccactcct ttggaagatc attatttgct tgagtttcat agtcttgaga atcctcattg 60
 ctttcacttc ttttcctttt agaatccctt tcatgattat gtatctcttc taagaaatct 120
 gaaacatcat ctaacacatt ctttcttgga gaaataacat tagactcatt aaaggaaaca 180
 tgaatggatt cttcaatatt catagttctc ttattgtata ttctatatgc ttactatgc 240

[illegible]

cacgacaaat aagttgtgtg ttaaaaaaaaa agcaatcaga gaaaatgtgt gctggtgtaa 420
taaggtcaaa agcaaatgaa agtgaaaagc tagtg 455

<210> 1088
<211> 422
<212> DNA
<213> Glycine max

<400> 1088

agcttcaaca ttcaatgtca agcgtctcga tatattacgg gactcaatca tacatccgag 60
taaatagtta ttgtcgtttg aattgggtca gagcttcaac attcaatttc gaggggtctcg 120
atatattacg ggactcaatc cgacatccga gaaaaaaatt attgtcgttt gaattgggtc 180
agaggttcaa cattcaatta tgagcgtctc gatatgttac gggactcaat cagacatccg 240
agtaaaaagc tattgtcatt cgaattgggt cagagattca acattcaatt tcgaggggtct 300
cgatatatta cgggactcaa tcagacatcc gagtaaatag ttattgtcgt ttgaactggc 360
tcagaggttc aacattcaat ttcgagcgtc tcgttatatt acgggactca atcagacatc 420
cg 422

<210> 1089
<211> 406
<212> DNA
<213> Glycine max

<400> 1089

agcttcttat ccaatgctca tcttggtggt gaatttcctt ctattctggt attagaacga 60
gtggatggcg cgtcctatgg aatataatac tacttattgg gctgctgttt ctgagaggaa 120
tggcaccata aagtgacctc attatgggtc aaggattcca ccttttggtc ttccacaaag 180
ctgatgctta agctgacaat tgtgaactga atgcaatttg agccaatgtc ctttatgggtg 240
actaaccctaa tacttgtatt aggtgtatca atttatactt gattgcgtca ttatttagac 300
agactaaact ctttaaaatt gtaataaaga ggtgtgatat actcctacct tagggccatg 360
atacaacggc atatcttgga cttttctact tataacatgg gcttgt 406

<210> 1090
<211> 464

<212> DNA
 <213> Glycine max
 <400> 1090

tgagctctga tgggtgcgcag cccaccatct tttcatagta gagtaccgat tatgtgtcta 60
 ccatcacgat tatcgtctcc ctttccatta ttgggggtac cacctgagcc gccagatccc 120
 tccacctttt gggcgtgttc tttgaatgat ccgtccccct ttttgcacat gttctgtagt 180
 tgcacacctat ccggaacctat atcacaattg tactgatact gcctaacaaa ggcaaccatt 240
 aggtccttcc aagaatggac tccggaaggt tccaagttag tgtaccaggt aacagctacc 300
 ccagtaagac tttcttggaa ggaatgtatt agcaattcct catcttttgc gtattccccc 360
 atcttctgac aatacatctt tagatgggtc ttgggacaag tagtccccct gtacttgtca 420
 aagtccagca ccttgaactt gggaatgacc atgtttgggt atta 464

<210> 1091
 <211> 449
 <212> DNA
 <213> Glycine max
 <400> 1091

ctgcagcttg caagtttaaat aaagaaactc ttaaattctct cttttatctt tagatttaaa 60
 catgttctta gttacattca attgtgcac atcgattcgt tttgttattc ctagcgaaca 120
 ttttgtttta tattgatgat tcacaactgt gtaggtaatt gtcgttgata aagttttaac 180
 cttcattttt cacatcccc atatttctag tcttacaaaa tgtcatttct cttgtatcta 240
 ttaattaaaa caaactttta ttaaaaaatt attatgagcg tgtttcgac cgacacaaag 300
 gcccttggac gtgcgtatatt catggtcaaa catgagaaag tcagttgacc gtgatgtttg 360
 gcttctccac tataactcgat tcacctcgtc gaaatcgatt ttgaagcaca gcatggttga 420
 ggcagcttcc acgtcaagtt aaaattgat 449

<210> 1092
 <211> 436
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1092

ctctgttaat tgaaagtnta aaatgatgct tattaaggaa gtatttgta attgaaatct 60
 cttttaattg aaagtttgga acgatgctta gtgttgaatt ctggcaatgc taaggtgggc 120
 ctctgaacat ggacaaatta tctgttaatg gaaattctgg ctccctcaag ggtgggtgga 180
 gggttctgat actgcctttt gagtagtggg ttttgttggt gccctttaga gtaaactctc 240
 acaatttcac aatccgattc tacaaataaa gtttatggaa cttccacgat tctacgtaaa 300
 atcgagagtt taacaaccat gattggaaagt atccgcgctc tctatctctt tatatacccc 360
 attaataaag ataataattg ttgatcagca gactgcctgc gttaagtgtg attactgctg 420
 gaaatgcaga tattat 436

<210> 1093
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 1093

atttatttaa acctcccact gggcattaag ttaggcctac ttggttaaaa ggaaaaatat 60
 atattttttc atagaatggg gaacaactaa ctcaaattaa ttacaatga atatttaaaa 120
 atgtggagtg actgagttaa aatggattca cttaatcatg ctatatcgag tgactgagtt 180
 aaaaatttag agctatatat gtcgctagac gcttatcaac agtatattta tctggtttat 240
 aaattaaagt aaacgacaag aaattacttc ttatacattg tgacctacgtg caatcacaac 300
 gatacaaaat tccatattat aagaattgag agtataacta tgttttcatt gagcatttat 360
 ttattaatgg tattgtgcta cggcatgtga ggctgtgcga caagttcatc agatataaat 420
 attgt 425

<210> 1094
 <211> 192
 <212> DNA
 <213> Glycine max

<400> 1094

tgaagctcca tagctacgat tgacgccaat gactgtaact aacatgacta ccatactgga 60
 caggactgcc tccggatgga attgaggcta tctaatacat acaccagatt gaactcatgc 120
 aagctgttca cttgtcgcgc atgtagaggc tgctgtagac gcagtgaacg atgattcttg 180

actaaatgat ct

192

<210> 1095
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1095

agcttganga ttatggggta cccgtcatat gtggtattag gtggcgatcg ggcgatggtg 60
aaaatcaact atcccatatc cacgaatcaa acatgaactc accatcccca gttgcccacc 120
ttcaactaag ctcacgtact cctacgtagc ccttatectc gttcctttca acaccgggtc 180
ctcatcaacc cctccaagct tccacaatat ccaagcgatt caatttccaa atatcatgaa 240
ctatcctaaa ccaagaaaac agggcagagg cagaaaactc tgcccaaac acattcacat 300
attacaactg tccttactca aagaccccag taacattctc ttcgttcggg tacgttaacc 360
ataggatcaa attgaaagt ttactggagg ttcttagtac ataaatctac attgtgaccg 420
ttgggatct 429

<210> 1096
<211> 334
<212> DNA
<213> Glycine max

<400> 1096

agagatctac aaacattggt gtgcctacaa cactactact aacgaggaat gtggtagtgt 60
attacaccga gtttgatgag tactaggagg aactcgagag aagactctgg gatgagaagt 120
taactgattt tgcagacgat cgcatagaca ttgctattat gaaggaatct tacgccaaacc 180
tctatgacct caagggtaaa tcaattattc tgggtgaaggt gagaggacat ctaacgaagt 240
ttgatgaaga ctgcttgaa acattgtagg agaccccgat gactatggaa gaggggggaga 300
atgtgtgtgc tgattccaag tttgcactcc tgag 334

<210> 1097
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 1097

agctntacag cagatnttag taatgaccca cttttctaga attaaaataa cttaatgcc 60
 ttaacctagg gaattaaaac aaactaaatg gctgagtgtg actgaaattg ttggcaacca 120
 aaagtcaccc ccaacagcca acaagtcagc caccatttgg tctcccaaaa ggctgatgcc 180
 taggttgcca attgggccct tattacaact tgaactaaag cccttttagt tgattaaccc 240
 aaaacatatt tttggtcagc caactttaca aggattgggc cattatttag acaaactaaa 300
 cactctaaaa ttgaaataaa gtggtgtcat ttagtctcc atttgggcca tgatacaact 360
 cacaaccttg gacttttctc cttgaaactt gggcttgtat tcaaatagta tggacagcac 420
 ttgttgaaga gcgtccttg 439

<210> 1098

<211> 380

<212> DNA

<213> Glycine max

<400> 1098

aggctctgag caaattcaaa cgacaataac ttttgactca aatgaccgct tgagtcccg 60
 agtacatcga gatgctcgta atagaaaagg gaagctctga gaaaatgaaa cgaccattac 120
 ttataactac gatgtcggat agagccccgg aaaatattga gacgctcaac attgaaaaca 180
 gaagctctta ggatattcca acgacaatat agtttgactc ggatgttcga ctgtgtcccg 240
 taatatatcg agactctcg aaatgacaag agaagctctg cggaaattcg aacgacaata 300
 acttctgact ctagtttccg cttgtgtccc gtaatatatc gagaggctcg ttatagaaaa 360
 gggaagctct atgataaact 380

<210> 1099

<211> 149

<212> DNA

<213> Glycine max

<400> 1099

catgcgtgct gggattgatc tgatgcctgc cttactaacg ccatagacgt actcttatcg 60
 acatggctcc ccatcgcaact caagtgcata acatgggaaa taaagagaga gatagctcta 120
 tacactacgg actatggcgt agagacctg 149

<210> 1100
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 1100

catgagctag tgaacactct ctctgacatc atgtctgtgc tcatataagt gatcatgacg 60
 tgcattgaga tgttctctgct caactcgcac gtcgtgcact gtgatacctc gctcctgaag 120
 acgcttcttt ctgatcttcg atggcactac actcttgagg ggaacattct gaagaactgc 180
 ctaccttgtc ttcattgttc ctctgacgct ggttacgac tttggagagg ttggacatac 240
 ctctctgaa gatatgatac gcattgtacc tcactttag acaggggaacc aagtcacaga 300
 caccctcca tgetagecca gagttgggcc caattagcct ttcattttct acgcacgagc 360
 agtgaccttg tggcgg 376

<210> 1101
 <211> 438
 <212> DNA
 <213> Glycine max

<400> 1101

agcttatcga gaaaagaaat tgtataatgt ttgtttacaa cattgttaag ttcaactaaa 60
 accctttgta gagcattatt cccaagtgc gtaagaccaa ctgtaaaaga aaaaaaatta 120
 aacacttgac aatggatgca tgcactacta tcactatacc agctagcttc attcgtctct 180
 ttcaagcatc tatagcaatt ctttgcaata aaatcttgaa actaacactt ggacagctag 240
 atctaaccgt tgttgctgga gtgtgaccaa attaattggt atatttatta tgaataattg 300
 aatattaaaa tactcttggc agtgcatacc taaaagctc acttgtggac aaaaacatta 360
 cgggtcttaa tggatagata agaattaaaa tcaatcaaag taaagatcag ggaggatcat 420
 catcaatttt cagcacc 438

<210> 1102
 <211> 447
 <212> DNA
 <213> Glycine max

<400> 1102

aaatctttaa cgagagagtt ctactttctg gtaatcgatt accgagagcc aacattgggt 240
 ttcaaaactg atttaciaaag cttgtaatcg attaccatga gcatgtaatc gattaccaat 300
 attgtaaaat gttagatttc aaatctcaag agtcacaact agtgataaaa cattgtcaaa 360
 tcattgtaaa cttgtctaata cgattacaca atacttgtaa tcgattacca gagtttctaa 420
 acggtttga 429

<210> 1105
 <211> 430
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1105

agctngcttg tggggcttct atggaggctg gatcttcaag cttcagtga gtcctttaat 60
 ggtgattttc caccatggag atggagcaga agacaaagga gaagaggtga gagaaggcac 120
 tatccactag ggaataagcc atggaagaag gagcttcacc accaagatga gcctaggata 180
 agaagcttgg agaggatgct tcaatggagg aaaagaaaga aagagagaaa gaaagagggg 240
 gagcacgaaa ttgaaggaag aaaaagggag agaagttgaa ctttgagttg tgtctcacia 300
 gactctcatt tatcaaagtt acaacaagtg ttacacatgc ttctatttat agactaggta 360
 gcttccttga gaagctagag cttagctaca cacaccctc tcataactaa gctcacctcc 420
 ttgagaagct 430

<210> 1106
 <211> 429
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1106

ntaacctcat cgtctctcac agtctttaga tttgggagcc aatccaatcc ttgtgttcgg 60
 actctcagcc acttatgata gccgccgatg atcccattac ggcttccctt aagctctctg 120
 tcctttcttc acgccgcac ccatgccttg cgaactcctt ggagtaccct cgcgttgttg 180
 tcaactgaaac cccgtgcgat gaaaggcgtg atgctttcgt ctgatggcac tcctctcatg 240
 aggtagccaa gctgtcttat ggcgaggacg ggattataat taatacaacc ccttggtccc 300

atcaagggaa catttggaca tccttcgcat gaagatagaa tcctgattct tccttccttc 360
tagcgagggg accaattaac agacgcccct ccatgctagc caagagttgg tcccaattcg 420
cctttcctt 429

<210> 1107
<211> 438
<212> DNA
<213> Glycine max

<400> 1107

agcttgtcct tggtttaaac atgattggta catgatttgg gacttgtatg tattaatttg 60
ggaaaaattg gatgggggaa agactgggtt tcgaaatctg cactttatgc agaattttgc 120
tgttgaaatg tgcagcagaa ttttgtataa gtgcagaaaa atgcttgtgt atggctgggt 180
gtaaaaaggg tagtacatat ggggttctgg acatttgcta gcagatccca acgggtcaaaa 240
tttacaccta tgtactagag acttccggtg aaattttaga gtcgatccga cggttaacga 300
attggaacga agaaaatgtt actagagtat ttgtatgtga aaagctgtga ttttgagttg 360
tgctttgggc agagtgtctg cctttgccct gttctgcttg gttgtgttag tacatgatga 420
tgggatgtgg aattacct 438

<210> 1108
<211> 469
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1108

ctaagctctg ctgcaatatt acaatagacc tcctcaacct cagcagctaa atcaaccacg 60
gtagagcaat tatgacctct ccagcaacag atacaaccct ggatggagga atcacccctaa 120
cctcagatgg tccagccctc agcaacaaca gcagcagcct gtccttctc tccaaaatgc 180
tactggccca agcagaccat acattccttc accaatctca caacagcaac aacctcagaa 240
acaaccaaca gttgaggccc ctccataacc ttccctcgaa gaacttgtga ggcaaatgac 300
tatgcagaac atgcagtttc agcaagagac cagagcctcc attcagagct taaccaatca 360
gatgggacaa tnggctaccc aattgaatca acaacagtcc cagaattctg aatagctggc 420

cttctcaagc tgtccaaaat cccaaatatg tcagtgccat atcattgag

469

<210> 1109
<211> 585
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1109

ctgtacatcc ttactngact ctaacctcac tattccctca atactaataa ctctcacacc 60
actcaccatc cgacgctgac acattganga ccgtcgaact gtagccgcg actctataca 120
tgctactgcg ngcatgctag catgcttgag gtgctgttat ggacgctgta tttacaagct 180
tcaatgaggt cctttaatgg cgaatctcca ccacggagat ggagcacaag acaaaggaca 240
agaggcgaga gaacgctcta tgcactaggg aataagccat gtgaagaagg agcttcacca 300
ctcagacgag cctacgataa taatctcgga caggatgcta caatggagga caacaaagaa 360
cgatagatag aaagaggggg agcaccaa at tgtaagaaga aaaagggaga gaagttgaac 420
ttcgacgtgc gcctcacatg actctcattt ataaaagtac cactgaggct acacacgcta 480
ttatatatat actacgaacg cttcttgaga ggcatagacc taagatacac atcacgcttc 540
ttatagcgaa gcgcacctcc ctcgagaagc tcccttaaca cgacg 585

<210> 1110
<211> 368
<212> DNA
<213> Glycine max

<400> 1110

ccgccgatga tcccattacg gcttcccta agctctctgt cctttcttca cgccgcatcc 60
catgccttgc gaactccttg gactaccctc gcgttggtgt cactgaaacc ccgtgcgatg 120
aaaggcgtga tgctttcgtc tgatggcact cctctcatga ggtagccaag ctgtcttatg 180
gcgaggacgg gattataatt aatacaacc cttgttcca tcaagggaa atttggacat 240
ccttcgcatg aagatagaat cctgaatctt ccttcttcta gcgagggacc cattaacaga 300
cgccctcct gctagccaga gttggtcca tttcgcttt cttttcgacc acacggtgac 360
cttgagcg 368

<210> 1111
 <211> 459
 <212> DNA
 <213> Glycine max

<400> 1111

ctgattgtat tttagagtga gtatttatgt caactacagt cttgctaggg tcaccacaac 60
 caatatatca acctaaagtt tatgagcaca gtcattgtag attttgtacg gacatgttat 120
 tcacttgtca aaattagtc taattgaaga tagtaaataag gaaaagttgt aaggactacg 180
 aatgtggtaa tcagcgtcgt caaaattatg gagcatgtga agttaatgtc ttgagaatga 240
 ttactttttc ttaagactga gagaagctag atcagttttt tgaatttgac ttctctatta 300
 tcccttttca ttctgtccca tgaaaataac attgcatgac atgacaatta tattaatatt 360
 taattataac atttaattct aaaaatcatc aaaactgtat aattttaaaa ggacaacaca 420
 aggacaagga caaggacagt acaaggaggg acaatagac 459

<210> 1112
 <211> 185
 <212> DNA
 <213> Glycine max

<400> 1112

acaaaagagg atctttttgca tatctatctt atgtaccgga agtccacat tcattatgac 60
 tgaattatcg ctgatcacat gttggctacc cccatgatcg tgtaccta atgtgcctta 120
 gccatattta acactacgat aactgactac tacataattg ataccataa aacctttcca 180
 gctgt 185

<210> 1113
 <211> 612
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1113

tctctctcta actaccactc aacactcgtc acataattct agtttatatt gctataacag 60
 atacctgtgt atcgcatact cgcactctaa ctgcgcaact atctcacatc cctacaccat 120
 taçacatctt aatcactcta tatctgttcc acctactaca ctcgataaca catatttctt 180

SECRET

aaagctctcg agaaattcaa atggtcataa ctgttcacac tgacgtccga ttcaggctta 60
taatatattg atatgctcaa aaataaacat cggaagtctt cgagatattc aaatggtcac 120
aatctttcac atggatgtcc gattcgggcg cataatatgt cgagaggctc aaaattgaac 180
aacggaaggt cttgagaaat tcaaatggtc ataacttttc acacgagatg tcgattaacg 240

cttataatat atcgatacgc tcgaaattga acaacggaac tcttccaaaa tatagatggg 300
cataacaatt accatgatag accattctgg gcctctatct tcatcagggtc gaataaacia 360
cctagctctt cc 372

<210> 1116
<211> 438
<212> DNA
<213> Glycine max

<400> 1116

agcttatata ccaccagcat cgttgtaata gggctgttga tggaacctct ccaaagtcaa 60
gctttccgca tgacttacgg aaagatctta gagttgacct tagcagaggt atccatagaa 120
accattgcat cactcaccca atactacgac cagcctttga gatgcttcac attcggagac 180
ttgcaattag taccaaccat tgaagaattt gaggaacttc taggatgtcc tctcggggga 240
agaaagccat atctttcatc cgggtgtctc cctcttttga gcataattgc aactgtgggtc 300
taggatacaa caagaggttt ggaccgcata aaacagactc ggaacggcat agcgggccta 360
ccacggatgt acctagaaga caaggcgagg ggtatggcca atcaaggaga ttgggtcccg 420
tctatggata gtgtagct 438

<210> 1117
<211> 368
<212> DNA
<213> Glycine max

<400> 1117

atatgcgcat acttccttac atacgttgtg tagcacaaga cattatatta accgtaaaat 60
ataatgcccc catctacgat caaggcagct cggacaccta aattatttac acgtacttgc 120
aacgtgtaga tgatacttac atcgcacaca tgtccttggc taaattgaca tacaagcata 180
ctcaaaacat tttggggtag gcaaaattgc aactgtgca cattatggca tttcttaaac 240
ctagacatac actaactcaa tgatgaatct tgactatcta cacaatacgg tgctacatgt 300
catgctcttt tcacatttgt gctccctaac accgcatgca aattcaagta tatcatcctt 360
tgctgact 368

<210> 1118
 <211> 494
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 1118

cgcgctgacc ttgtgaccct gtgtgcgga gcttaagaca acccagcatg ctgcttgttt 60
 gataaagaac atactacatt gtcgttgagc tgaagagacc cgcattacgt aagcctgtgt 120
 cttatatgac acacatatta gcttgactta tatatggcaa gggttggcgc atgaacatat 180
 atatgaacaa tggatatgac tgctacgtac gcctctctat ttcattggact tgacatcata 240
 cgagttcttc tctccccctt cttgcgtcta agatagctaa cgaatatcac tgacttatgc 300
 actgcgacaa gaactgccat acactactga actatcacia ctctgagtcc aacatatacc 360
 ttgggttaaca ttattatgaa cttctcaagc cagggagaac cttgagcaag ataccgagta 420
 ccgggatgac aatgacaagg atctgagatc catctttact ggttctatac tgtcatgatc 480
 actacgcacg ttan 494

<210> 1119
 <211> 222
 <212> DNA
 <213> Glycine max

<400> 1119

 tctcaatatc tgttcttgag tctttaacgc gctctgaccg gttattgaag ccgtgcttgt 60
 cgctgaaag agtgataaaa gaataccac cgagcatatg tggcgcacac tcatttactc 120
 actttacaaa cgaactctgg ccgatcgtgc acgctataac ctacgctaaa ccgctgagag 180
 gaaagtatgc aatgtatctt gtaacatggg tggttaactga tc 222

<210> 1120
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1120

gtatgatacc tggttaacttt atgcccaccc cggatttcga cattctcaac ttgaaacagg 60
 gtttaggggt gggggaacat aacaaaagcg tttaatcgga atgcattgat agtttaagta 120

ttttataatg aaatgcaata tataactaata tagtcgcttt tcctagcgat tcttctaata 180
catatatttg agatgattat gtaaaaatca ttatattaaa ttagtaatgt atcaaaacta 240
aaatttctaaa tatatgttga ggcatgactt aatttatgtt attttatcaa aataaactct 300
aaaatttatt ttaagaagct ttaagggtcaa cactataata taaactatnt agtgatacta 360
aactcgctca ttcattgatta ttgtcgcggt tacgaattca cttttactat taactcaaaa 420
agt 423

<210> 1121
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1121

ttcatgggct aagtaatata aaaagctctc tctgatatag taccagattg cttacattgt 60
aaagcttcat acgatacata ctanagggtac ccaactttgg ccatatgggc caatattact 120
aaacaataga aagggattta taaagttatt tctcagaact gaatagatta gagctaaacg 180
actatctatt acctgagata tgttgatgac aattacgtct acacaaattt tgaatatatg 240
ttcttctatt gttgaaatca attaaaaatt ataaaaattt gtcaatatta ttgcttctta 300
attaatactt tctataatcc tataattgat aatatgtgcg aactaactaa taaaacagaa 360
tgttttataa tatactacca tgttagaaat acttatatac tatcagtttc at 412

<210> 1122
<211> 392
<212> DNA
<213> Glycine max
<400> 1122

agctagacca atcctgaccc aaccgggca tagttaatca gtgataacct gtgatgtacc 60
taaacaggcg agctcctggc agtcaaccga taagggaac aaagaccaca aagcatggag 120
gcttgtgtgg aggttggcca gctgcgaaac ttgtattgat atatgggata tggactctgg 180
taatcgatta ccaaggggcg taatcgatta caaggcttaa aaagtaagac aggagactaa 240
gatggctctc ggtaatcgat taccaggctt gaaaactaga tcatgaagct tggagggctt 300

ctcgtaatcg attaccatgg cgtgtaatcg actaccaggc ttataaatga gacttgaatg 360
 ttgaaggagc ctctggaaat cgataccaag ct 392

<210> 1123
 <211> 379
 <212> DNA
 <213> Glycine max
 <400> 1123

tggtgaggta gccatggaaa agcagagcgt ttggaatgat ttcgtaaatt tcagaaggct 60
 attgtgaaat gctggtaaaa acacgaatgc caagcagata taaatttgaa tgaggaatgt 120
 atagggtcgt gtgaagcaac ggtcgaatct tccttggttc agtagtgaac gtgctattaa 180
 tgtaagtga ttcgtttggg cacgttcaga ttgctgtagt tgctataatt cctctagcac 240
 acaaagccc agcttgcccc tcagttgttc aaactgattt gcatccaaag cctttgtgaa 300
 aatatctgct attctgtcct caatgtcaac atgcttcagc gtgatcactt tatcatcaac 360
 aagatctctg atatagtgg 379

<210> 1124
 <211> 449
 <212> DNA
 <213> Glycine max
 <400> 1124

agcttcgtcc gcagatccct catgtaagac tatgtctaaa ctattcaaca ttatgtaaca 60
 acataattaa aacaaaaact taacccgcag atccctcatg taagactaag ttttgcct 120
 gcttcaatca agttctaagg caacagtaca tttcccaatg ctaaagtcac ctaactgtga 180
 acacaaatgg gtgatcagac caaaagcata ctaacatcaa gcattgaagg aagcattgaa 240
 cacagaatac acaatcaatt aggtattagg tatttacatc atctgttcat ttgaaatccc 300
 caactagggt gttccgccac ccattacaga agagacccta tcaataatta gcttactaac 360
 cctaggtatc tctgcaaaag ctgctcctct tgctacctcc agagctcctt tccctaaata 420
 ggcaatgtgg ctgctgtgga attttgtgc 449

<210> 1125
 <211> 459
 <212> DNA

<213> Glycine max
 <400> 1125

cgccacccag ctcgcccagg cgagcaaggt ttcttctctc agaagcaaca gccttctgga 60
 ggaatcttct ggagggccca agtgggtctg gttgctatct gcaccccat tttactaaa 120
 tacacccctt gccttttttt ggtgattctt ttttcgtaa gttacggaaa cttacgaatt 180
 tcgtaacgat acttgttttc tttccgtaat gttacggaa cttgcggatt acataatcat 240
 cccctttttg acttacggaa tgttacgaaa cctcactaat tgtgcaacga tgcttccttt 300
 tgatttccgg tgtgtcacgg aaccttacgg attgtgcac aatattttct tttgatttcc 360
 ggcacgtcac ggaatttcac aaattgccta ctgatgggtg ccaagcacct taaaaatgac 420
 caaacacaag ttgcatgcca ccaagcacag gtccctgga 459

<210> 1126
 <211> 461
 <212> DNA
 <213> Glycine max
 <400> 1126

gtcacctgca gctgcagcta tcatgcctc acacaatact ttgtatgtat attacaccag 60
 agatgtttgt ttcaccccag gtaaaacaat atggagtat caagcatttg cccggaattc 120
 aaatgatggg tcaggacgag gctgaatgat tattccatgt cctatggcca attgaacagt 180
 ccctttgaca agtgtttcgc acaagggtt caaggattta tattctttca ttttcccaa 240
 gatacagagt gtcctatatg agagagacag gaattgtatg gtaaggagac agaccatcac 300
 ccatgcaaca gtccaccagt catacataga cactattagt atatttctct cttacatcat 360
 aacactgccc tattcttaag agataaaaaa gggaaaggat ccagaatcag gacgcaatac 420
 ttcacatttg ttcataccaa ttcacattgg cctctgtca a 461

<210> 1127
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1127

tatctgggtca aggtgaaata aaaatggtct ttcaaactaa tagttgccag attcaatatt 60

ctatatatttta atccaagtga acacttccat aagggttggt tcagtttcta tcaagaacat 120
 acatcaaata aaggatgcac agctttttaga taaaaagttt atgaactcca acatacctgc 180
 aaaagacaac tacattcgac tcgttttttt gatacactgc cacaggtctt tataacattc 240
 ctgtagaaca gcttctcaac aacaatgaca ttcagatggt tgaaaatatc aaaaccagac 300
 tgcttgagtt tatcatattt atcaatatga aatttatgaa tgtagcgctg ggcatatggc 360
 agagtccagt ttaccaatga ctntttcaaa ctacaatcag caagaccata atatattggt 420
 tcccgagtta ccacctgcac aaagtcata 449

<210> 1128
 <211> 457
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1128

ctcatcttta tttcgttcat tctcgatttc ttttcttttg tctttaacgc gctttttaccg 60
 tttatttaag ccgttttctc acctaatata tgataaaatg aatttcaacc gatcatttgt 120
 gttgtaatct cattcaatca cttttaaaac gaaatctaac cgatcggttca cgctataacc 180
 tcggttaaac cgaaaaaagt aaaataatca aaatatcttg aaaaataata ataaaataat 240
 caaaatatct tcgaataaaa taatcaaaaa aatcaatcgg acgttnttct ttggaagttt 300
 ccttgaatga attgattaat aactaaagtt aaattaagac taaaatcaac tcacaaatca 360
 agttttgtcc gaaaaatcac taaaaaccgt tttaagggtcc aacgccttaa gcggtcctct 420
 ttgcttttat cggttaacat ggaccgttca aaagcat 457

<210> 1129
 <211> 338
 <212> DNA
 <213> Glycine max
 <400> 1129

atgacaatgc ttaccaagtg gagctggccg gtgagtataa tggttaattcc aactacaatg 60
 tctctgattc atctctttgt gatgcatatg gagaatccga tatgatgact aatacttctc 120
 atgacggaga gaatgatgat gacgtgacca caagcaacgg cagggatcca cttaacgact 180

tgtatgacct atgacaaggg ctacagcaag gaaagcctag gacgctcttc tacaattgct 240
gtccatacta tgccaatata agctcaagtt tgaaagagaa aagtccatgt tgtgacttga 300
tcatggccca tatggaagac taaataaacac cactttat 338

<210> 1130
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1130

ttctacaatc tcgagccttc anataaccct cctcaccttc ttccgcatca ttatcatcag 60
tatgaggacg aatattacat tcttctctat gccaaatttc agattgatct atccggtttt 120
cctcattggg ctccacctca atgctatcct tttctgagct agcatggacc accttatctt 180
ctgcacgtgc ctttgtctta taaaccattt cagactcatt aaaaataaca tcatgactta 240
taatgcatct ttttgtctct ggctctaaac accacaatct gtaccctcta aaacctgag 300
gatatcctat aaacatacac ttgatagctc taggttccaa tgtgtcttgc cttatgtgag 360
cataagcaac acatccaaac accctacgtc tatcattatt tggaggatgc cctg 414

<210> 1131
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1131

ctcatctaca ctgtacttct atataatttg tatgacatag tgcattgatgt ataattgatgc 60
ctatagtctc gagatgaggg atatacaaat tgctatcttg aaaacctaag accatgcccc 120
ttaatgtgat aaggggacat aacaatcaac atgcaaagga taaatagtat acatgacaaa 180
cctgtactcc aaatgtcgga cactattact tggcttctac aaaagccaag tncaattagg 240
atgtacccaaa aaataaagac ctaaattaat caacagtga acatcaccta ctaataaaga 300
atacaccgac aatatggtag ggaaccacac aaataaagtt ggcattttaa gtcaccaaag 360
agatgaagag aaaacatata ttgccatcat ctgctccatc atatggtaaa cacactaaag 420
ttaggaaagg aatga 435

<210> 1132
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1132

agctttcttg cttcttagat ntcattcctg ttcttggtta ctgttatcgt ccattcctaa 60
 aactgccaca tcacaactta gatcttaatt gaatTTTTga gcttaccgaa ccatattaaa 120
 taatttcaga ttagggacta tactgattat ttcaactgtt gttttcatat ggtgtttatt 180
 tgtgcatgtt aatctccctc atgacattct gttattcatc attgtatcaa cgtaacaaag 240
 aaaacagtat tattgtgttg tcgaccaatg ccacaattaa agagggccac cctgtactat 300
 gatatatagt tacttatgtt gtctttcttt cacaacaaat atgttggttg attattttat 360
 tatctatgta gttgtttggt tattcatatt tcttcctggg attgatttct tcagctggag 420
 acgagttctt cttacata 438

<210> 1133
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 1133

aaccctacat ggagtgattt gctacatcta aatagtaata acatagacgt ctgttatgcc 60
 gctttaaaca cttaaataatt ataaacatac tcaaagagaa tgctgctcct tatctataat 120
 taagggttca atatgctcct tctacctgct ttttaattcac tctgattcat tcaagtgtgc 180
 ctactatacc acatgactat attagatacc tgtctgacag cttttctact tccactacct 240
 aactatatta attatgtgtc atgcagcatg actcatatat tatcacgtgt cattaagatg 300
 acatagttag tatgcatggc aatattgact tgatctaata cggatcacag tgaatctttc 360
 aaaacttaag accactttat 380

<210> 1134
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 1134

acatcttaca tagcgagttg atctctctct tagcgcgcg ccataaatct tgtgctcttc 60
 cagatactct catgctgcta agcacgctgt atctacgctt aacggtagat gctagctgag 120
 cccactggat ccgcttatcg cgactgctcc ttgtggaagc aatgacttcc aagagtattt 180
 tgatgatgcc aaagaatcaa gagtcaagca cgttccattg aatcatgact ctggttgctg 240
 gaagaacctt gtttctgaga ttcacgattc aagaataatc aagtctcaag aggcaatcag 300
 gtctcatgaa taatcaagac catgagtcaa gactgttgat tcaagacca tgagaagact 360
 caatcgggat aagcactaaa 380

<210> 1135
 <211> 333
 <212> DNA
 <213> Glycine max

<400> 1135
 tgcctaacag gccaaacttac aacagcatgt cccaagagtc tcagctttat gatgcacata 60
 ccaaagttga ctatgtgaaa ggatgttatg accaagtga ggtgccattt gtcaagaaga 120
 atgatggcta tacctagcat gctacatga tgatgtacga agtggttctt gaacacgatg 180
 atgatcctgt acatttgatg gctaattgtc ttcaagaatg atggaatgat gagaatactg 240
 attctgacca aatacaggct tcaggcgctt gaggagatgg acacaccctt ggagtggaga 300
 atgatgaatg cccatatgga gaatgataat ggc 333

<210> 1136
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 1136
 agcttgtgat gttgttgta gttggtttgg cctctggctc tttcacttat agggacagta 60
 ttttgtattg tgttatgttc tgtaatttcc ttggctctgg tacaagtttc taactaatgc 120
 tctcatgaat gaaatatact gttattaggt gatccttgaa cagataacca gttcccatg 180
 gaacaacttt ttgttcatga tgtactatgg cttgggtata gaagctatgc tcattcataa 240
 aatatgtttg aatttgtatg ttacgttacg cctcaattta cacataataa ttttgaaata 300
 tttccattaa agcttaatgt catcttttgt tgttaaagtc tcttctgctc tgcacccgac 360

atccctactc aaaacaggaa ccattcattt ttttgctctt ccttaattac ctgcttttat 420
gtgtatatca tga 433

<210> 1137
<211> 436
<212> DNA
<213> Glycine max
<400> 1137

attctttaca atcaatctat ctactgaata acaattctaa atgtaagtcc acattcttgt 60
tctttctttg tttgacatgc acatttgctc aacttcatga aaggaaacac aaatctcatc 120
ttaagcatgc attcaattta aaacaaagtc atacaccgt tttcacaaaa agataaaagt 180
gtttcactgc catgtcatct aaaataagtt aaactgttca aaatgcttca agataagcat 240
aataattatt catatataaa actagtagta tatatagaca taaaggaaat actgtacgat 300
aaccaaaatt ataataataa taaatcaaaa agtgaaaagt gtcaccagga attaaaattc 360
ctgtgactag tcttgagtct cctgtgtttg accatcctcc tcatttgtca gctgaagaac 420
tggagtagtg ggagga 436

<210> 1138
<211> 280
<212> DNA
<213> Glycine max
<400> 1138

gtagacagt caccgcttta tgagcgcttt acaccagtag cgcttogagg ccatcaaagg 60
atggtcgttt cgacgggagc gacgcgtcca actcatggac gacgagtata ctgatttcca 120
ggaagagata gggcaccggc ggtggacatc actggttacc cccatggcca agttcgatcc 180
agaaatagtc cttgagtttt atgccaatgc ttggccaaca aaagagggcg tgcgtgacat 240
gatgtcctgg gtaaggggtc agtggatccc gtttgatgcc 280

<210> 1139
<211> 354
<212> DNA
<213> Glycine max
<223> unsure at all n locations

<400> 1139

tctatataag ctgaaccatt ntatcagtgg actcaagtgg tgttttcttc gcaaactaag 60
agtctatctc ttgtatccta ctgagagtga ctctgcatat ttcttgagtg ggtcaagaac 120
accttggctg tcccaaagga ctttatcaac cttagtgggt cgccctcggg gggacgagag 180
atgctttcct tccgtttatc gtctaccttg ttctttcaaa tcacaattgt agataatacc 240
tcctatgaca ataaatatct tgtggtccta actctccttt tatgcactcc actttcgtga 300
ttgatgggcc tcaaacgaac tcaaaacgat accttgcacc tcatattgga atga 354

<210> 1140

<211> 434

<212> DNA

<213> Glycine max

<400> 1140

agcttaactg ctttgtaaaa cgaaatactc gatctatata atctttgtta tcattaaata 60
tatttcaaac tagttcaatc atatgcatca aagtatgaaa gctttcaaaa aaacatgaaa 120
accttgaagt agtattctaa acaatatttt tctgagtaca atattatgaa aaataacttt 180
ctaagtgtag tagcaacata ataagaatcg ttataacata aactaaattt gtcataataa 240
caatgttttg agagatacat ttatttatgt aatgatcttc taaacaagag caaatgcata 300
ttgacattag gttctcataa tcaagtcaaa cattgaataa tgagtgttat gactaaccac 360
ttagagagct tagttgtctt agtacttgaa cctctatgtc aagaatttct ggacaccaat 420
gtagtcttga ataa 434

<210> 1141

<211> 425

<212> DNA

<213> Glycine max

<400> 1141

atactgcatt gttgactaat tgttggttgg gttatttaca tctattttca gactcccaat 60
ttgcagattg agttttgggg ctgctttctt gctgaacaat gtttggttga ctatgattgt 120
ataatatact tgtcttctat cgcggctgcg tctgttatat ttcttttcaa acttattctg 180
gctctgaatg catacttaag gaaatattat gttatggata atgatataca catctcttta 240

tcanagatca tgattcatta aaaaataaag tgatgaaat

459

<210> 1144
<211> 333
<212> DNA
<213> Glycine max

<400> 1144

accacagagt ggtacctgta gatatgtctc gggggtcattg agaacctggg gacgtcatgt 60
gggggtgctat tgcccaaaac caagcttgac caatcccgac ccaacccggg catagtcggg 120
cagtgagaac ctgtgatgta cctaagcagg cgagctcctg caatcaacag ataaacgata 180
acaagaccac aagcatggag gcttgtgggtg gctggccagc tgtgaatttt gtgtaatatg 240
tggtatgggtg cctctggtta tcgattacca aggggtgggta atcgattaca ggcttaaaaa 300
tgaagacagg atgcatagat ggtctctggt aat 333

<210> 1145
<211> 461
<212> DNA
<213> Glycine max

<400> 1145

cggagaagat gcttcaatgg aggaaaagaa agagggagag aaagagagag gggggagcac 60
gaaattgaag gaataaaaga ggtatagaag tggaactttg aagtatgtct cacaagactc 120
tcattcatca aagttacaac aagtgttaca catgcttcta tttatagact aggtagcttc 180
cttgagaagc tttcttgaga aaacttgctt gagaagcttc tttgagaaaa ctcccttgag 240
aagctagagc ttagctacac acaccctct cataactaag ctcacctcct tgagaagctt 300
ccttaagaag attcctaaag aagctagagc ttagctacac atacctctct aatagctaag 360
ctcacctcct tgagatgaga agctagagct tagctacaca cccctataa tagctaagct 420
caccatcatg acaaacaaca tgaaaataat ataaaagaag t 461

<210> 1146
<211> 347
<212> DNA
<213> Glycine max

<400> 1146

tttaatagtc attgcaccag atctaacctc tgcacagag gctggaagcc ttctcaaaaa 60
 catgaaaacc ttgaagtagc attcctaaca atatttgtga gtgttctata ttgagaaaaa 120
 tgactttcta agtgtagtag cgacccaatg agaatcgttg taacataaac ggtactcgtc 180
 attactacaa agtgttgaga gaggcattca tttatgtaat gaagttctag gcaagagcca 240
 acgcctattg acattacgtt ctcatatca agtccaacac tgtatcatga gtgtgatgac 300
 taaccactta tagagcttag ggggcttagt acttgaacct ctatgtc 347

<210> 1147
 <211> 696
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1147

acgcgctcca cntctcgccc cgtgntgttt antgcanttc attacctccc gtcgacagta 60
 atatttgatg tgtgcntctc tctacgctca tgccgtgact actcgtcgtc tactcccgtc 120
 ntagtgcact gactcatant cgtacactct cgctcattnt atcgctatca ctacatgact 180
 tactagcgta ctcttatgag tgtctctcac attctctcta ctctcttata tctatcgat 240
 ctttctcatg cacatcttct ctcatctct cggatacgta ctnnnnccgc tctcctctca 300
 cgcagatagc acatgtgtgt gctctcgatc atacatatgg ggtagaatat ctcgtagacc 360
 ttgtgcttgt cggtagagag gtcagagttg tgcccttata caatatatga cttgtttaga 420
 acagctgccg tctatgctta aatattatta tagcacatgc tcttgcttct tcgttggtgtg 480
 gacgactaca ccaatgttgt gacatgctgt atcttgcac acatattcat gtgtactcat 540
 gctacgcacg gtcctttcac gcgcttcatg ctcatgcata cctaaaatca tcatacacgg 600
 tctctcacia tgtggagtca acccatacac actattatca tacctgcttc tttagaatct 660
 attgatacct ttcttgttga ccctacagat actcct 696

<210> 1148
 <211> 422
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1148

cattatttga ttgaaatata tccattatat tttaaaagtc ttactctctt tcaactgcaat 60
tactcttctg caagtaagat tatctcttat gtaaaactca ttcattccatt tgggtcaaaca 120
caccatgaca ataagtttta ttatcttgaa ttcttttaca caatttcatt tgtacaagta 180
tgcattgagt tatcagattt tagtgcttga gtatttataa aaatataatt tttgtccct 240
tatgtttcta aatctgtaat tttagtcctc aatntttta ttgacatatg ttatctctca 300
ctttttataa aaaatcataa tttcagatca cccgactaat ttcaaagtgt aattgtgtac 360
tttgtatttt ttttctttta attaaactta ttagtaatta aatacataaa aaaaaatact 420
ct 422

<210> 1149
<211> 429
<212> DNA
<213> Glycine max

<400> 1149
tggctgctgt catcatgtgc aagcgctcgc atatattacg ggatttagtc agacttccga 60
gtgaaatgtt attgtcgatt gagatagctg cgagcttcgg ttggatatgg cgagcgtctc 120
tatatatgtc gggactcaat gagacttact agtgaaatgt gattgtcgta cgcattcgct 180
gctacctatg gaacaacaat tcgagcggct gacatatgtc gggactcaga cggacttccg 240
aacgatatga tattgtcgat ataatatgct gagagcctcc gttataaaca tctagcgtat 300
cgatatatta cggcactcag tcagacgtcc tagtgagatg ttaaagtcgt tcgaagtcgg 360
tacgcgctat ggctattaat tacgagcgtc acgatatatt acgggactca ttcagtcttc 420
cgagtgatg 429

<210> 1150
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1150

agctcgtagc ctattcgaac aacaataact nttcactcgg aagtctgatt gactcctgta 60
atatatcttg acgctcgaat agtaagaccg aagctcgtag cagattcgaa cgacaataac 120

atgtcactcg gaagtcctat tgagtcctcg aatatatcga gacgctcgaa ttttaaaacc 180
gaagctcgta gcaaattcga acgacaataa catttcactc ggaagtccta ttgagtcctg 240
taatatatcg agacgctcga attttaaaac cgaagctctg agcatattcg aacgacaata 300
acatttcact cggaagtcog attgagtcct gtaatatatc gagacgctcg aaatttataa 360
ccgaagctcg tagctaattc gaacgacaat aacatttcac tcggaagtgt gagtgagtc 420
cgtaatatat cgagacgc 438

<210> 1151
<211> 508
<212> DNA
<213> Glycine max

<400> 1151

agaacgcgca tgaacatga gaacatcgag atccgagata ctctccaggc gagctgacgc 60
gtgagctgta aagatgtcac agtgaacttt ataagcttat gtgctggcca gcatagggga 120
caatcgacta tgtatagcca acgtattatc ttatgagata aggtgtgatg acggtccttc 180
cacattatat tattccatgg tagattgatc gtctccgctc aaaggaaccg cttgttagag 240
tcaagaatat tgagcgctcg tcaacgttat attataagta gacacctata gaggaactac 300
cacgttatat tgggttaatt gtggtatagg cccctatagt tgatcgaatc ggatcattaca 360
ctcatttcct ctagttatgt ctactgaact catgctttat acttttacta tgaatggaat 420
ttaacacacc tcttatataa ccgtccaatg tataacaaca ttacgagaca tggatgtcat 480
tatagatgat atgaacctac actgctct 508

<210> 1152
<211> 380
<212> DNA
<213> Glycine max

<400> 1152

aatggatatg gttagggtgta tgttaatcaa ttagacttta tccgtatcct tgtggatgta 60
taccttgaaa actgccatgt agttgttgaa cagggttcct agtaaggtag ttccaaagac 120
accttttgaa ctgtggacaa ataggatacc tagtataagg cacctgcatg tttgggggtg 180
ccaggcagaa ataaggattt ataatccgca agaaagataa ttggatgcaa gaacaatcag 240

tggatatttc attggttatac cagaaaagtt aaaagggtat atgttttatt gttctaataca 300
 tagtatgaga attgtcataa ctggaaatgc aagggttcatt ggaaatgatg aaatcagtg 360
 gagtacagtt ccacgagaag 380

<210> 1153
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 1153

aactcacac atatacttag ttcaaaattc tatgattaag agcatatatc tactgaaatt 60
 aaattcatac acgcacagat gaacacaaca caaagggttc tctgtcagtc ggagttgtaa 120
 ttttttaggg tgttataact atgtatagtc atttacaaaa atacctcca cttgtaaact 180
 cttatgactt aattatccct tttatatctc aagatatcta ggatgaccaa taatcaacct 240
 taattatccc cacctaattg ctaaccttac attaatactt aagttcttct ttttaagcttg 300
 taatttgat atctagacca agatctaatt atttacatct aggtcattaa tgagttgacc 360
 attatttgac caagaaaatt ctctaaacta tctttattct atgtagaagc tt 412

<210> 1154
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 1154

tataacaagta ctcttgaggt ttcttccatc agagcctcgg tattgagctc ttaatcttct 60
 ttttcttctt gtattcctta ctggattcgt gcaaacttct cattcatgga tccaaaatct 120
 cattttcatt cttacaagct tgaaacatca aggatctaag atctttgttc atctaataaa 180
 atacatgtat cttcatcaac gtaaagagag tctctccaat acttaaacc taatcttggc 240
 gtctttggaa gctaaccctc attgaatgtt gtttagatgt tcaaaatttc atagctactg 300
 catatgctgg aactgtatca tgtgttgttt ctcttgtaat cttaacgcaa aaaatgagat 360
 atttgagtgc caatacttac gcgtaacctt atatctcacc tacctcat 408

<210> 1155
 <211> 392
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1155

gcattacatt attactcatg cttctaacca tgtetaatat tgtnngattt ctgcgttctg 60
ccacaccatt ttgatctgga gaaccaagca tcttgatttg tgcaacactc ccatgttctt 120
gaagaaactt cgcaaataaa cctgggtgctt gtccatcctc tgtgtatcta ccataggact 180
ccccaccttt atgtgatctc acgatcttaa tatgttttcc acattgtgtc acatctgcat 240
ccttaaaaac tttaaaggca tctaaagctt cattcttaga atgaagtaag taaagacaca 300
tatatcgtga ataatcgttt ataaaggata tgaatactct ctgactagtg gcattcatgt 360
ctgggcaaag tatgtctgta tgtatgattt ct 392

<210> 1156

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1156

tgaatgaaac accactgtca ttgagaacaa tggatccatt tttaaaaata atacctaata 60
tgtattcaca actgttgact gcttgetcat ccagaatgcc atagttttat gaatacttgn 120
gttgatactg aaacttgtgc tttcttacag ggtaggttg tgccatatat atagatgact 180
tttcatatca gtgctgcatt ttttaaagat taaaaatata cctgctcatg ctttctgtat 240
gtgttgtaaa ctacaccaat gatgtgacat gctttacctt gcatcaaata tgcattgtga 300
atcatgctat gcatgagcct ttcacgcgct ttatgttaat gcagacaaaa atatataata 360
cacggttttc cacaatgtgt atgttactca gaccacaata tatcatacat gc 412

<210> 1157

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1157

ataaaaaaaaa tctaataatg agtcaaaaata ctcaaagaaa taactttgtt atgagacatg 60
attagttttt ttttatctat aaaaattaaa gatatatatt aaagaatgta taaaattcac 120

atggattatt taatcaattg aattaaactc ctttaatatata aaatataatc aattaacatt 180
 tgacactaac acttaaataa ataaagtaat aacttttttt ataaaatata aaagtagtca 240
 atctaatacat cgaataattt aatattatct ttgtaattat atataggaag aagtcaaatt 300
 acaatcatat gtttttacac caacagttat attgtaaata actctatatata aaatataaat 360
 tttattgatt taattgttaa attctaatta tatattatct tgagtgtggg tctcacattc 420
 tctan 425

<210> 1158
 <211> 436
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1158

tcttggtnaa gttntatgca aacaactatg cttgacattg ttgttttcta atttgtatat 60
 tgggatttat attagttttt catattggtg ttttcaggat tcttagtgag gatgcagagt 120
 ctcaactctt aaaaggcaga aaaaagtgcg gtggaagctt ttgagacagc ccacgctatg 180
 ggtgttatta tgtttgactt gccaaattgc cctaagaaac gttgtcaact agagacatcc 240
 tctgttaatg gagaaggatc atctacccat actgttactg catcttttga aactgccctg 300
 aggtgggcag ataagtagtt gatgcagtca aaactgcatt tataaggctt gcaaattgtc 360
 cttcttttag tatcggtgaa ttcgaggaac tactaagaca aattagtaat ctggacttgt 420
 ctgagttctc ttcaga 436

<210> 1159
 <211> 426
 <212> DNA
 <213> Glycine max
 <400> 1159

gcacttatgc agtaaagaga ctgtctaattg catgtttaca acatggctaa gttcgactaa 60
 aaccctcttg tacactttat gtgcaagtgc tagcagacct actggtgaga aaaacaaatt 120
 tcacacttga caatggatgc acgcgctgct atcgctatgg ccacataact tcattcgact 180
 gttgtaagca tctacagcat gtctttgcaa tataatgtta gatactaaca cttggacagc 240

tgtatctatg cggtgacggc tgagagtgcac cacattgatg gatatatcta tcacgaataa 300
 gcgtatatta gaagactcga ggccgtgctg gactacaaag tctagttgtg gacagaaaca 360
 tgctcgggtct gaatggaatg ataagaacta aaatcaatca ctgacatgag cagggatgat 420
 catcat 426

<210> 1160
 <211> 502
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1160

cgcgcttgca cattgtgacg cgtttcgccc gcgcattctg aggcagctgc ggtctacagt 60
 catatgcttc tggcactcta cctcatatct gtaatagcca gtgtagttat ataaagcctc 120
 aagctcatga ccgtctatct atgcgcgcgc gtatgatcac ctgcgagacg tttgtctggc 180
 caccgatgat gtcattggaat gagaagtcac gcttgcccta tctgattacc aacacgcacc 240
 cctcctgttg aggtgcttgt gagcgcctatc aggtactgat ctcaaacaga gaaagaggaa 300
 ttgcaatgtt gcggatcaaa tgcttgagct tcaactgccta cctaacagct tgcactgtgt 360
 cattcatatg ttcgtccaac cgtgcctcgt aaccgaacgt aatatgagct ccatcatctg 420
 tgagtagcga gtgaacatta tctaaccncg acttatgtgc aaacgctatg ggatgactac 480
 tccaagatat cacgagagag gg 502

<210> 1161
 <211> 380
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1161

atctaattatt catgtgagtt acagaaaccc gcacttattg tgatcacact ctttgtgata 60
 cattattatc attattaatt aaaacttata aaatcgagaa ttaaattcca ctgatgaata 120
 agatgtgaag ccgacnattt tttagccttt cataaattgt aacagttcgt acaaatcaaa 180
 gcatattaaa atgtgtttta gcattttctta caatacataa tgaaagtggc ctctagtcc 240
 gtacaacaat ttgtcaacta gggcaagctc acattaaata tatgggcatg gctaacaatga 300

ttatcgcaaa gtttctaaca ttatatttac ccgtaaacta ttatgaatgc ataacagaaa 360
talcaggaat attgttggtg 380

<210> 1162
<211> 424
<212> DNA
<213> Glycine max

<400> 1162

agcttttaaaa gtacccattt accaacctca tagtctactt cacgccattt agtatcatca 60
gtgcggtttca tcgtagcttg cgcttctaata agcttctgac gaatgcaaag aaaaacttcc 120
tcacagtgtc tcagagtatc atccaccgca tctagtttgg aggagctagt gatatagtct 180
ggaaaagaga aaggtttccg cccaaacgtt atctcatagc gcgtagagcc cgtgcctgcg 240
ttccatgaag tattatgcga taattcgacc cagggaagga atctgcccc agtccccgac 300
cggcggtgca ccatagcccg caaatattgc tctattactc tgttcatgac ttcactctga 360
ccatcactct gtggatggtg ggctgaactc attctaagcc ttgtaccact caattaaaaa 420
agct 424

<210> 1163
<211> 427
<212> DNA
<213> Glycine max

<400> 1163

taggtgtttt acaaaatcta tttagttaaa tatgctacga tttagtttat aataaaacct 60
attaagcttg ataaattggt ctatttattc atttatatat aataaaaaat taatatacat 120
gtattatact ttaatattta atatcttaat aagttaataa ttcatatcat aaataaaata 180
aatatttgag ataaaaagcc ttttaagtaa taataggtca tatcagggtt ttaaaaaggt 240
caaaccaagc ttaaaaaaag tctctgatag gataataggt taggtcaaac cttaattttt 300
tataataggt caaacctatt tacacagagt ctaacatgcc ttgtatattc tcaccctat 360
tcttacgttt caatgtttga acttcaaaaa gaaaaacaat attcataata tttgcttcca 420
atcatgg 427

<210> 1164

<211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1164

tcctcaacat caaagtaata caacatccaa tcatcatgga ctatcaaaat caagcaaaac 60
 agggcaaagg cagaaaactc tgcccaaaac acaactcana atcacagctt ttctcactta 120
 aagacccag taaaaattcc ttcgttcag tttgttaacc gttggatcga ctcgaaaatt 180
 ttactggaag tctctagtag ataaacctac attntgaccg ttgggatcta ctagaaaata 240
 tccagaactc cttctgcaat attctttcca cagccaatca cacacaagca tttttctgca 300
 cttgtgcaaa attctgctgc acaatttcac agcaaaaatc tgcacaaaga gcagatttcg 360
 aaaaccacac ttccctcat ccaatctttc ccaaatacaga tctacaagt cccaaatcat 420
 gtatcaatca tgtctaaacc aaagtcaagc ttcaaaacac agc 463

<210> 1165
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 1165

agcttggttc gaggtactca cccgttgaag atcgatgatc gactatgaac gaatgaagag 60
 cgctgaataa cgggtgaaac ctttgcgaga ttctcacgg aatacgttac ggaaacgttt 120
 cggaagcgcc tcggcttaga ttgtcttcac ggaaacaatt ttcttagca tattcgaaag 180
 agagagaagt gcctattgtg ctgaaccctt ttcttattgc ctctctccc tatttatagc 240
 taaatagggg aggtggttgc cgcccagctc gccagggcga gctcaactcg cctggcgag 300
 cagggttgct tctccagaa gctaccgct tctggaggaa tattccagag ggccaagtg 360
 ggctgggtg ctatctgcac ccacattgta ctaagtacac c 401

<210> 1166
 <211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1166

cgctaagcga gatctgcatg atttaaatac attcttcagg gtcaaaaaca caattttctc 60
atccccctct ctcaaaaactc caccaaacca ccctagaaac tctctctcca ccaccagga 120
ccatcggtag ccaccacaag ccactgttgc ttgccgcaa accaccatac ggagaggaaa 180
ttaaagtca cagcggacat taaaagagta gggaagaatg agacaaacac acaagagtnt 240
gtatactggt tcggtaacaa cccgtgccta catccagtcc ccaagcaacc tgtggctcct 300
gagatttctt tcaac'cttgt aaaaatcctt ttacaagcaa agatccacaa gggatgtacc 360
ctcccttggt ctctttgaac ctagtggatg taccctccac tagaactgat ccacaagaga 420
tgtaccctct cttgttctca gtcaataacc caagtagatg 460

<210> 1167
<211> 586
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1167

gcaaaactcc caccatacgc ttctactaat catacatcac tctcaatatn acatanaccc 60
tcatacacac gccgtgcgtg aaaccattgt aganccgtcg tatctccaaa gacgacctcg 120
angcatgcaa gctgctactt atgcggcagg gcggacttac tttactatct tgtctccaac 180
gcgagctatg accactgttc ttccttcccg cgacgcttct tttcatgtcc gcctgagtgg 240
gtatatagcc taaaccatac tttccacgat ctctttgagt attcactcag gctagtattg 300
ctgacgctgt ctttgcctaa acccatcccg ggtgcataac cgctacacca acataactag 360
ggccattatt accgctgcat cggacagact aggctgctca aagagggagt ccacggagga 420
tatgtcgacc acctacaaag actgtagagc gtgctctaac gaatctattg cggatcacac 480
aaatgcaagg tagacggtca gcttaacaat atatgataca tgcccgatac gaagcaaaca 540
atgcctccc actaccaaatt attagcatat gccagacgc aatccc 586

<210> 1168
<211> 380
<212> DNA
<213> Glycine max

<400> 1168

taaacagaca attttaaaga catgaatgta atgagatttg agtcttgatt tgcctaattg 60

cattcaaaac tctcattgga aaagaaatcc atgtctatga acttaggac aataatggaa 120
 tgagaggaga aaaggggtgc gtaccatata cgttggttctt ctgatgagaa catcaaggaa 180
 gaagatatgg acgacggaat ctgcatttcc tgagcctcgg agtgccggtt ggcttcactc 240
 gaagatccct tgcacttttt tgatggatct gccatttgaa cgagttatct gaaatatcaa 300
 tcgggtcacg tgaaagagaa tgacaacaga tgaagtttgg gctttcgggtg gagtgatttg 360
 gacaacactc tactgatata 380

<210> 1169
 <211> 427
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1169

tgtttgtcat catcttaaag ggggagaatg tgaatgtatg tatacatgat tctgatgatg 60
 tcaaagaaga atctaacaag gctgcttcaa atgataagca tttgcttcaa gaataattca 120
 agattgcttc aacaaacaaa gccttgtttc aagattcact aaagaccaag ccttgccctta 180
 aaacaaagtg ctttcaagac atgcaaggct ctggtaatcg attaccatga agtgtaatcg 240
 attaccagaa gacaggggtg agaaatagct gttgaaaaag gttttgaatt tgaattttca 300
 acatgtaatc gattaccata tgtctgtaat cgattaccag caacgaaact ttggaaattc 360
 aaattcaaaa gtcataacct ttcaaattat aactgtgtaa tctgatacac aaacattgta 420
 atcgatn 427

<210> 1170
 <211> 462
 <212> DNA
 <213> Glycine max
 <400> 1170

agctcggttat taaatacaaa acacacatat tattatgaaa aaattgacgt taatgacgta 60
 aattattatt aacacttacc actgcatgtc tcagctagtc gacatcagac cttgcagatg 120
 tcgacgggtgc tgctgcctcc gtgaccggac ggatatctgt gtctggatcc tgaggggcaa 180
 ctctgggctg cgtagcatga ccatctgccc gaggatctga tggctggccc ggcgtcatga 240

atgggatgcga catgcggaag aatcagtcga tgtaatcgct ggcacactgc cctggcacia 300
 cgcagatgtc acctgctaca accatatggt ccgaatagtg catccacctg ttgtgtatat 360
 catcagacgt gacccatgaa tcggcaggtg gagcatgaat ggtctgagtg tatcaaactg 420
 ccgcatgacc ctctttgggtc ggtaatataa aacaatgggc cc 462

<210> 1171
 <211> 512
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1171

cgcgcgtaa tccgttggtg annaccgtgc tcgtaccctg ggatactcta gagagatacc 60
 tgcaagcacg caagcatatg atactgagag atggaaaaca ctattttaat gacactaata 120
 gggacatagt gttgtattgt attacaccac gtaatccca tgagcctagc acactttctt 180
 aacttatgct ctgcggaatg aactataccg ttattaggtg agccttgaac agataaccac 240
 tccctctagg aacaactttt tgctcatgat gcactatggc ctgtgtatag aagctatgtc 300
 tcattcataa aatatgcttg aatcttgtat gctacgctac acctcactta cacacaatac 360
 ttttgtaata ctttcattaa acgccaatcg tttcatttgc cggtagatgtt attctgctta 420
 gcaccctaca tcccttaca aaataggcac catttacttt tttgatccta cttcatcacc 480
 tcgctctatg acggctatca tgaacaataa cg 512

<210> 1172
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1172

tgtcttctgt ttatatatga tttatactcg atctaagact tgtctgatgc aatttgctca 60
 atcntggatg acggcaatgg tgatttcgaa aatctgcact tatatgcaga attttgctgc 120
 ttaagtgtgc atcgtaatct tgtgtttgtg cagaaaatgc ttatgcatgg ctgtgtgtgg 180
 aaagggttgt acatattggg gtctggacgt tncctaacat atcccaacgg tccaaatgta 240
 gacttatgct ctatggacct ccaactcaa tttcgagtct atcacacgat gaacgagttg 300

gaacgatcag aatgttactg gggctctccga gtatgaaccg ctgcgggacg tgtttgtgtt 360
 ttgggcaggg gtctttgcct ctgccctatc 390

<210> 1173
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 1173

gggaaataat aatctgccgc agcggatcca agagaaaatt aagagaagaa ggagaccctc 60
 tgaaggctat ctatgctacg gtatgattaa cctttaccca tcgactttac cttttatgcc 120
 aattgtgaat ctttaatcat gaaggttaag agaaggagcc tgtgtagtgt gtagaggagg 180
 gaaaataagg gatgcctata aaaattatga atggaagctt ataaaatatg aagtacaaat 240
 acatacaatg ttgcacagat ctaaagataa tggcgaagag tgtcattagt tgatactttt 300
 ttgttatact atttctgtat tctgtttgac ttttatacgt ttctgtcagg cgtcataaaa 360
 aagaccgcac atagctagga agactggtgg atgcgatagc ctatatagca gtgataggca 420
 taaacaca 428

<210> 1174
 <211> 118
 <212> DNA
 <213> Glycine max

<400> 1174

ctataccac cgagcctga gatacgagc catttgcaaa catcatatac tacttgctgc 60
 acaactatac ttgcttatga ttgccaacta gttattacat taatgtaagc tttctgtc 118

<210> 1175
 <211> 483
 <212> DNA
 <213> Glycine max

<400> 1175

cgcgatgaac catggatacc gtgaataccg gaacctcgga gactcctgcg gcgtcgagtt 60
 aaaaaagacg agtttgcatt tttgacgggc gaacgcgtcg catgatcatg aaacctagac 120
 ctccctgcac taatgtataa ggatgctaaa aagcatacta ttcgttccaa caatgactct 180

aactgctgt atctcacctc gccttggtgc atgatttact gactaccacg cctgccttt 240
 gaaaggatgg atttcaacac ttgtcacgct ctggtaatcc gttaccagga agagttatcg 300
 atcaccagaa caccagggcc ttaattatca gctcaatcag ggtttgtatt tgtatctgca 360
 acatgtcatc tgataacacc tgactgtaat ttagtaccac tctgagctt aggaagctac 420
 gttctaacaa caaaactcct caaattatc gggggttccg acacaccatc tctgataccg 480
 gcg 483

<210> 1176
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 1176

ccaggcgacc tatgttgctt cccctagaac gcactgtctt ctggaggaac ttcttgaag 60
 gcccaagtgg gcctgggtgc tatttgcacc cctgtttac taaatacacc cctgccttt 120
 ttttgctgat tctttttccg taacgttatg gaactttacg aatttcataa cgatacttgt 180
 tttctttccg taatgtcacg aaacettaca gattacgtaa tcatcccttt ttggttcc 240
 gggatgatac gaaacttcac ggattgtgca acaatgcttt cttttgactt acggcatgtc 300
 acggaacttc acggattgcc taacgatggg tgccaagtac ctcgaagtgg tctaacgagg 360
 gtcgtcatcc aacaaatata tgggtccccg acgatatatg ggtatgacag ttgcccctct 420
 ttat 424

<210> 1177
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 1177

tctacttatg tggcacggcg ggcttacttc actttattgt cttcaacgcg agctctgacc 60
 actgttcttc cttgccgcga tgctactttt catgtgcggc tgagtgggct tatatcctaa 120
 accatactta ccacggtttg cttgagcatg tatcaagcta attatgtccg cgctgtgtat 180
 gtctacaccc atatcgggtc ataaccgcgc cccaacatag ctcgggccat cattaccgtt 240
 gaatccgaca gacaaggctg cccatagagg gagtccacgg aagatatgct gaccacctca 300

taagactgga atgctgttct aacaattata tttgagcttc cacataacgc atggatgatg 360
ggaagcttac caagatgtct tcctctcctg acacgatgac c 401

<210> 1178
<211> 432
<212> DNA
<213> Glycine max

<400> 1178

agcttctgaa gaaggacttt actactctgg cgcagactag gagcgtcttg tcctacttca 60
accttgccct tacatcacat acatcttata tgaacttaga tagggcgggg ttggtgtatg 120
gactagatat gaagatggat atgaatcttg gagccctcat ttctggacag atatctctga 180
tagctcagtc caactcctcc cggctaggat ttctagcgat tatcactgct ttatgcatgg 240
ccacaggagt caccttagac tcgttgactt tcaaaactct cagcccagct attaacttgg 300
cttacatcaa gaagaacttc tagaacttgg atgacccttc ggtcagcttc ccagggaccc 360
gtaaggccag ggccagagga tctgagggtc catcttcaac tgctccccag gactctacat 420
gtccagctcc cc 432

<210> 1179
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1179

tagtagcagt tacagaagtc aatatttccg ccaataacta tgatcatttc taccttacct 60
attttccatc atggccttgg tttgtgtgtt tagattgcca ccagagtcct aaatagacaa 120
tatctttcat tgcaagctta gcaacagtc caaaacccaa tttttgccga aaccaagtgt 180
catgatttct atattaccaa ttttgctagc tggtgatgtt gcatcatagt tttgctatgt 240
catctacctt tgggtctcatc tctttacctt acaattcagg caattatata attacccttt 300
ttcaatatat agaattggca acatgcaaac atatctaata caggaaattc caccactaat 360
agtcagccta taatccataa ccaatgaagt ccccatctc caatttattt catcatctaa 420
ttntatt 427

<210> 1180
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1180

ntcacttcat aagttgtctt atgcctaana atacgttgag ttatccttag taaagggtaa 60
 aatattgact caagtaaagt tcaattccca ctcaagattg gagcaaacta cttagcttgg 120
 caataattcc gaccaagggtc caacctagta ggtaaccatt cttgactgtg acgtatcaag 180
 gaatgtattc ttaacgaata aagttacacg gttaagaatg ctgccgacag caacaacaaa 240
 atggaaaatt ttgtttgtga caggaaaatc ttttgtggac caccatattg ttatttcaat 300
 taatcttctt tttcatcgtg aaatcttttt ctgtgctgct ttcccatttg actctggaaa 360
 atgaagaagc tatatagatt tagatgcagt tgtttattta tttattt 407

<210> 1181
 <211> 345
 <212> DNA
 <213> Glycine max

<400> 1181

gcttcaacgg cgatttacca ccatggagat ggcgtggaag acaagggaga taagggtgaaa 60
 cgaggcgccc tctactacgg aataggccat ggaagacaga gcttcaccac caagaatgtg 120
 ccttgataa gacagcttgg agaggatgct tccctggagg aaaagaggca cagattgaca 180
 gagagagaga gagagaagat cgaccttgaa ggaggaacac ggggagagaa gttaaactct 240
 gagttgtgtc tcacatgact ctcatcctc acatttacga caagcgatac atgtgctgct 300
 atttatagac tacgcagcat acttgagaag cattcttgag aaaac 345

<210> 1182
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1182

tccatcgagt ggtaatcaga gcacaagagc ttotagcaag tgctccttac acctccatta 60
 attttttttg ctttaccttc tcttccattg ttgtttcttc atttttctcc atgtatctcc 120

tcacatgtct tgtgataaat gtttttaaca tgattctaga gtttccatgg attaaacttg 180
ctatataagc tagagtttcc aggatcttta agctcggatg gaaagatctt ctggatcaca 240
gcaactgcaat ttccttccat tatgatgctt tctgattaa tatatttgta cttccttggt 300
aacatatctt tcaaaaattt atagtacagt ggcactgctt acaacgcttc tctgaagggc 360
atggttattt ccagtttctt gaaaatatct aacaatctcg ccagatgaca atcnttttct 420
t 421

<210> 1183
<211> 488
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1183

gtgaacagtt tagttacaca attaattgta atctaannna tagccagggtg tgcactctctc 60
ccgcggatct taagtgaccg ggatgcactt tagcaagtgc cacttgtttt tttcttgaag 120
ccctttaggc cggtgccctt ccttgtatta agccactaca gccctaaaag aaaacctgat 180
atcccgtatt ttaaggaat tggagcttag gaatagtcag ggaaatagag cggggagggtc 240
cttgttcata ggaaaacttg taaagccgca atctcttcag acgatttttg gccctcacat 300
gagtcctcgc tttacgggga aatgttggac atggcgactg gaagcgattc tctcaccgcg 360
ctgggtcgca accacgaact agagaagaca ttattacgcc tcacgtggct gaaggaatct 420
gcacggccca aatagagaga ccttgatcca tcttcggaca aacctactga cctcatgacg 480
gtggatcg 488

<210> 1184
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1184

ggtgtatngc tacattctac taatatatgg aattgcccac tgctatgcct gagaataaca 60
atngcttgac cacaacaacg ctggaggcgg caagggacaa tggctcttca aataaacctg 120
ttgtacatga acaaacatta tatcatgcac tgaccgtgcc aaacgaacca gcgaagtcac 180

tgcataattg ttataactaac tatattcaat gtacctgaac aaaatgattt ccaaacacgt 240
 gaccgacaca tatgatgcgg tggccataag aatcagggtgg tgtgtgactt ctataaggga 300
 aaaatgtcat gtcttggttg cgggacaacg atacaaggat tacgttatac cggaagcaa 360
 tcacatatcc catgtccgtt atattcatcc actcgtccac gcttacctga atgaaccaa 420
 catacacatg taagctaata taacatt 447

<210> 1185
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1185

agcttcttat caaggctcat cttggtggtg aagctccttc ttccatggct tattccttag 60
 tggatggcgc ctctctcac ctattctect ttgtcttcg ctgcctctcc atgggtggaaa 120
 atcaccattg aaggacctca ttgaagctca aagatccagc ctccgtagaa gccccacaag 180
 caagcttcca tcaagtggta atcagagcac aagagcttca agtaggtgct ccttaaacct 240
 ccatntaatt tttgctttac ctctctctcc attgttgntt cttcattgtt tctccatgta 300
 tctctcaca tgtcttggtg taaatgtttt aacatgatcc tatagagctc ccaactgatta 360
 aacttgctat acacgctaga ttgattt 388

<210> 1186
 <211> 347
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1186

catagatgga tgaatgtatg ggacgaggtg gtacgctagc tctagttcca taatggagac 60
 cttctgctga aactaacttt ccacactttt gcacttcaca cgaaagagcc ccgcacgaaa 120
 ctaggataga catgtccatg taaagacaga cgctttccaa ggaactacct tccgctcccc 180
 atcatatatg gcaacgttct agattgctgt gcaccctctg atcttctagg ccattactgg 240
 actgataatt ttgcgcgagc gacgacttca gctcatggac taccattata ctgattttca 300
 tgaggaaata cggcgcctgc tgtgggcatg actgtttact cccatgg 347

<210> 1187
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1187

taagtcacct gcggcatgca agcttctaaa ctttatacaa gaatgaagct ctgataccac 60
 ttcttggaca agttgcctca gatattctta gaaggggggg ttgaattaag atatcacaga 120
 ctattcccca attaaaaatt ctacttttaa tttaatccaa caaccaaga ttccttttaa 180
 acaagaactc ctagataata atgcaaatta atcttactaa atagaaataa taagcaataa 240
 acaataaagg agtctaaggg aagagaaaat gcaaactcag atntatactg gttcggccac 300
 acccttgtgc ctacgtccag tccccaagca acccgctaga gaggttcact atcttgcaaa 360
 atccctttac aagttc 376

<210> 1188
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1188

gacactctat agtactacag ctnttgttct gttacatctg tttcatgtat atgatgtgat 60
 ctccaaatat ccaccgacta gtcattctta accagtgcaa ttttacctga tatcttgttc 120
 ctgtagaatc tcatgtcctg ccgaagatgc ctgttcaaaa ttgcccgtta cagtgaagaa 180
 tcctaggaaa aatataagaa aacttgagga aaaagtata ttatactctt catttaaaag 240
 tagtacaacac tacaacttta agtttttagct tttagagcat attcattctc caataagtga 300
 aaataatttg gtgcagcatt taggaagaat ttaattttct ttgatcggtt tgcaggatat 360
 tgctggattt cataacagta tttaaattat gcaacagatc aaacatgggc atatac 415

<210> 1189
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 1189

agctnntgcg gattggtctn tgccagtgaaggatcgatg tgggtccgaa aagaggcaaa 60
tntagtcac cgtcttcgac gaatgagaaa actggngcaa atgaagaggg tgaggatgaa 120
agagaaatcc atgctgcatg taccattcct acatggaaac ttcccaccaa cccaacaatg 180
tcattactca gccataaca acccatctcc ttaccaccaa cccagttatc cacaaggcc 240
atccctaaat caaaccacaa aaccaccta ccacacaacc aatgctaaac accacttttg 300
gcatgaaccg aagcaccaac caaaagggat ttttgcagca taaagcctgt aggatccacc 360
ccaaattccg gtgtcatatg ctgaacttgc tctcatatct actcgataat tc 412

<210> 1190

<211> 470

<212> DNA

<213> Glycine max

<400> 1190

tcagccagat cgctaagtga gagcttatcc gtggctaagc atgacctatt gtcgccaagc 60
gcaattcctt acgaccataa ttgaggcca tgacgctaag caccagtcac ggcagctatg 120
cgagattcat tgtggcaata tgagcgctaa gcgagtcct ctcagctaag cgcatactcc 180
tctgtactta agatgcatca ttttagctaa gctggccaga gcctgtttta gcgagagttg 240
tagcttttct aatctacaga cctcgctaag cggacatacc ctcgtgctaa gtcgagtttc 300
tgctaaaaaa aaaactgatt ttgaatgtga aacgtcagct aagcgcacgg gtccgctaag 360
cgagccttgt tgagaaacca aacgtctctc ttgctcgctt agcacaacgg tccgctaggc 420
gaaagtatcg aaaaactgtc taagtgagtg taacagcagc tacactcaca 470

<210> 1191

<211> 474

<212> DNA

<213> Glycine max

<400> 1191

cggttggtgca tctactcgac cggatcttaa gtcactgggc tgcagctcta gccaatggac 60
taccttgatt aattcctttg gagccctttt gagccgtggg tgcccttctc tggtttgaag 120
ctcactacaa gccctaaatg aaaaaccatg atatcaccct atctttgacg aattttggag 180

[illegible]

<223> unsure at all n locations
<400> 1192

<210>	1193
<211>	504
<212>	DNA
<213>	Glycine max
<400>	1193

493

ctcacatgtc ttgagactaa tgtcctaaac atgatattta gagcgaccac tgattataat 420
 tgctatgtaa gcataatgtg atcgttatag cgcacatctc ttttcttgta tctaacaatga 480
 attggtagag taaaggcctt tagc 504

<210> 1194
 <211> 417
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1194

agctntatgg ccatgtaaac actatggcctt atggtttggtt ttccccatt caatcaaccc 60
 aatgtttcca aaaaacatct cttttatcaa gtcacgcaca catccgagtc catttaggca 120
 tccgggaaaa atctttcatt gcattcacc ttcaggcgca cacatttttt tcaaaaatct 180
 ttttatatcc taatctgtga attttccaaa gaaaactggc ggtcattttc tttcaaaagc 240
 atgttggcctt tttagttttc tttctcttag ctnttttttt caattaattt ctttcagacc 300
 aatttttttc agaaaagggtt tgtaacctgg gcaaagttgg tattcgagat tacactntat 360
 caaaaggaac aanaggcgtg tgaatgacaa taaaccaaca cacaagacc ctcttat 417

<210> 1195
 <211> 426
 <212> DNA
 <213> Glycine max
 <400> 1195

tcttcgaagg gcaagggttat ttccagtttc ttgaaaatat ctaaaaatct tgccagatga 60
 cgatcttttt ccttcttgga aggtaccaca ggatatagta cttccacacc ttcatccaca 120
 gctttttcac ttctactctt ctttgcattc ttattttatt tattcttttt cattttctat 180
 ttcttattct acttcttttt ctttttcttg gtccttcaat tctttattct ggaccattat 240
 ttgtttccct ttttccgat tgccttcacc tctcacatca tttttcttaa cttcagtacc 300
 tttcttttta gtcgctttct ccttgtgcac tacactttct tcctctcag cttccacaaa 360
 cctcttactc cttgccatca cagctttgca ttctctcttg ggattctgtt ctgtatttgc 420
 cacaaa 426

<210> 1196
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1196

tctcccgcat tttcctataa ttagggggag aagtgcacagg aangaacggt caaccctcct 60
 ggtatatgag attcacttac tattagttag ataaatcgct tccatgaaga atatacacgc 120
 cgaggcgctt ccgtaacggt gatgttacgt tttcgtgagt gatttcgcga agattttcaa 180
 ccattcttcg acgttcttct tttgatattc gtcgttcttc ggtcttcaac cggtaagttc 240
 ccgatatcga actttntaat tcattctatg taccgttggt ggtccccatt cgttttagcgt 300
 acttttattt tcgtttcata tactctacgt agctcctttt gacgtgcttt agtcatctac 360
 ttgcctaatac aataataaaa taaatttcca ccgatcattt gaatgggttac atcacttaat 420
 ttcagttcaa tgagatgtga ccgtttgggtc atgccataac catg 464

<210> 1197
 <211> 100
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 1197

acatgttgct cccctatct ctaacaagct tctatagttc ctgtgatcta tatggatact 60
 gngatagcta cttatatcgc cttgcgttga ggacgggcta 100

<210> 1198
 <211> 281
 <212> DNA
 <213> Glycine max

<400> 1198

ttaacatcct cattgattag tgcagatcaa actactatat ccttgagggg acttacatca 60
 tacacttgag ctgcattttc cataaaccag aattcgcaaa ggatggaatc aaggaatagc 120
 atacataaag atcatgagca taccacggtt ttcaaatttg accataaagg gccataaaaa 180
 taattcttat atttctttta aagatatatt attattaaat aacacatagt tggatatagaa 240

tggtgatgct tacaagagtt aaaaaattat tctatccaat t

281

<210> 1199
<211> 197
<212> DNA
<213> Glycine max

<400> 1199

taagtaaacg atcataaacc cataatctgg cgacaagtgc agataatgag agtcatggct 60
agttggcata acatgttaac caatgcatct agtttacctt cacgcttcct atttctgttg 120
atgaatatga attcacggct acttgattca ctcttctaata gaccatagca tcacttctgg 180
cactaaattg ttgggag 197

<210> 1200
<211> 413
<212> DNA
<213> Glycine max

<400> 1200

cacggagact aatcagacat gggatgcagc tatcacgtac atgcttctat tctaaaactt 60
ctcatcatgt gcttattagc tggtcggggt tctctttggc tattgaagcc ataccaatta 120
tggacaatat tatggtaaca ggcagaagat ttgcgccgatg attcattctt gggatactat 180
ggtaagaact tggaatctca tcttcaatga gtcattattgt cataccatga aatatcatat 240
cttggttgcta ttgaatgaat cttgtaatta ctacaaaaca cctactgaaa ttctaaattt 300
tttagatcaa atgctaagta caagtaaaaa gatggatgat gatactattc tgcaggctctt 360
agctgtgctg tgtacgcgtt tcttataatt gctattgcta tcattggact tct 413

<210> 1201
<211> 596
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 1201

cttcacactc ttntcaacat ttaantgtgt tgtntntant taatttannt ttttnaggcc 60
ggaatgatgc ctcatcactg acannctaaa gtaaaccgca gcattgcgact taacaaccag 120
tagatatgag tgaattaaac tacgattaca agaccttgaa caaatgtgga agaatatgat 180

tgaagcatac tgttatattc tagcatatct acacagtaca ataacgtaca cttaagaatt 240
aagccttagc ctttcatctt tggctgctgc attattcgtg taaacatagc gcatatgcca 300
tatactaacg ccgtattact gtaagtgaac tcggaggcat tacaagaaat gagaattgag 360
acagttctta gtttcgagtt gataagataa gtgcaccatt acaaggtgcc aacatttggt 420
cacaccaac cgaaaacaat tacagcaata aaaacaaagg tcatgtacac atggtatgtg 480
attatagctt tgtacatgga tggttctaag atcaaaaagt acgcttgcca tttttacgta 540
atgtggtatc aactttgggc ttaggccgac cattaccaa cactacaatt gtcatt 596

<210> 1202
<211> 484
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 1202

ntngatgctc cgccagcaac tccgtaaggt actgatcgaa acctctcagg atagattagg 60
catcttttat ttattttaaa cgaacaatag taataattac tgtgaattta aaggatactg 120
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tgtctcaacc tttgatgatt ctgccccctg tttatcacia aatatgcatg tgtatgcgta 360
tgcataaatg ttttcaaacg caacaaattt ttagtgaaag ctggtttagg ttcgattnta 420
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acat 484

<210> 1203
<211> 441
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 1203

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tttccatgga aaatctgata ttaatgggaa tgaattgagc aaacttattc aatctatcaa 180
 caataaccca tatagaatct aaacctctaa gggttctatg tagtcctacc acaaaattca 240
 tggaaatgct gtcccacttc cactatggta tctctaaagg ttgcaactta cctgaaggtc 300
 tctgatgtta tatcttatcc ttctgacaga ctangcatgc atacacaaac tctaactcct 360
 ctctctttat gtatagccac caaaacatcg tctttaaatc atgatacatc tgtggagcac 420
 catcatcaat gctcaaatta c 441

<210> 1204
 <211> 313
 <212> DNA
 <213> Glycine max

<400> 1204

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 caagagagct cgaggatcat ctgcttgtat acaaggggta tgctgtaatg catatcagat 180
 agtctgttga gcgcgtatgc acgacgatgc catgactgct gcgacactag atgctgggtgt 240
 ttgataacag acatgagcac gaatgatagg ataaacgtga tgtgattaac agatgcttat 300
 gcactgcatg ata 313

<210> 1205
 <211> 239
 <212> DNA
 <213> Glycine max

<400> 1205

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 tagctctact aagacgaaat aaataaatga gtatcaatca ctccaatgag catgctctat 180
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<210> 1206
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 1206

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tggttgtag atcctacagg tgaaggagac atcctcagca cttgtatttc tgcgatctat 180
cgtcttggtc atagctttcg tgtaaaggac gctccttgga tatggaaagc tcgaatacta 240
tgatggatct tcgttggttg tgcacgatgt ctatataaat ctatgtattt aatgaagtta 300
cgtgagatgc ctgtgctata aacattttta ttcagtatgc ctataccatg ttcatat 357

<210> 1207

<211> 458

<212> DNA

<213> Glycine max

<400> 1207

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ttataactta tattgggaat tgcgatatat tgcagagtt ataaggctga tattattggt 180
atcattatct tttttttttt gaaaattatc tctttttcta tctcgtgttt aggagaattt 240
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ctcttgaact cctccgattt cgggtctctg aagataatat catcgcatgc tgttctaaca 360
atatacatgt ctgtcttata gtcattattc ctacggagat gtatggacta caatataatg 420
gctaagcgta agaagaggta aacactatta tatataat 458

<210> 1208

<211> 517

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 1208

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cctntgaggt accttacaat gcgtataaca gctgtccaat gagagtccat atgattagcc 180

atgatctgac agaccttggt cacagcatag cttaactcat gccttgtaat ggctgtgtat 240
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 ttggttaact tgcaattagt agtcataggg gaaggaatga ctgtgcttct gccattttgg 360
 ttttctgaag taaatctctg atatagttgc tgagtcagta gaatagtccc atcagccaca 420
 gattggattt ctataccaag aaaatattca áagtttccaa ttgtgtaaga caacaattgg 480
 aatgtatctt ggtggtgagt tgctgaatta ttacatg 517

<210> 1209
 <211> 366
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 1209

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 tatcatatct taagttgggt atatataaat atcactatca tagcttacc acacagtgc 180
 aaagcataga catacactga ctctgtcaat ttattccac tatgatggga taaaaaactt 240
 ggcattatgt tcagttctac tatgtctcta ttgttctctt ctttctatgt gcttggtaat 300
 caatttttgc atgtactttc aactgtaata atangaaaat aattttcctt tatgggtctc 360
 ttctag 366

<210> 1210
 <211> 254
 <212> DNA
 <213> Glycine max
 <400> 1210

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 ttgctgttat ctccaccact tatgatccta gtgatgaact ctggcatgac cttaatagca 180
 acccttccat cacaaccctt catgtactga atagggcgtg caccagactt gatacggggac 240
 ttgttagggc aaga 254